1990-1991

HORIZONS

GUIDE TO POSTSECONDARY EDUCATION IN ONTARIO

Ontario
Ministry of Colleges and Universities
Lyn McLeod, Minister

Horizons 1990-91

I am pleased to present the 1990-91 edition of *Horizons*. *Horizons* provides an overview of the wide range of opportunities available through Ontario's universities, colleges, private vocational schools, and other postsecondary educational institutions.

Whatever your interest, I am confident that you will find in these pages a program that suits your needs. Our institutions offer everything from mechanics to medicine.

This guide also includes information on financial assistance available to you as you study. In 1988-89 the Ontario Student Assistance Program helped more than 100 000 students.

I wish you the best as you consider your options for the future.

Lyn McLeod

Lyn McLeod
Minister of Colleges and Universities

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The Communications Branch of the Ministry of Colleges and Universities co-ordinates, edits, produces, and distributes *Horizons* as a service to those interested in postsecondary education in Ontario. However, the abbreviated listings are provided by postsecondary institutions well in advance of the current academic year. Therefore, an institution's admission criteria, selection procedures, and course offerings may change prior to publication of *Horizons*.

Because *Horizons* is intended as a general introduction to the institutions listed in it, the Ministry urges readers to obtain detailed and current information by consulting the institutions' calendars and contacting the institutions directly before making a decision about postsecondary education in Ontario.

The cost of producing *Horizons* has increased to the point where it has become necessary to reduce the quantities provided free of charge. Therefore, free copies of *Horizons* will be distributed on the following basis:

1. **Each Ontario school board and inspected private school will continue to receive free copies in an amount equal to 140 per cent of its total Grade 11 enrolment. The school boards must distribute these free copies to each school in accordance with this formula.**

2. **Each Ontario college and university will receive from 50 to 100 free copies, depending on the size of the institution.**

3. **All other groups and individuals may receive one free copy of *Horizons* by writing to the Enquiries Unit, Ministry of Education, 13th Floor, Mowat Block, Queen's Park, Toronto, Ontario M7A 1L2 or by calling the Enquiries Unit at (416) 965-6407. If you are calling from outside Metropolitan Toronto, but within Ontario, you may call toll-free by dialing 1-800-387-5514.**

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How to Use Horizons

- ✔ **If you are interested in attending a particular institution, find the institution's name in the "Contents" page (page 1) of this publication and read the institution's listing at the page indicated.**

- ✔ **If you are interested in enrolling in a particular course or program at a CAAT or university and want to know which institutions offer it, check the CAAT charts beginning on page 12 or the university charts beginning on page 89.**

- ✔ **Other postsecondary courses and programs are listed in the "Apprenticeship", "Colleges of Agricultural Technology", and "Other Postsecondary Education" sections. The institutions listed in these sections offer a wide variety of vocational, technical, and academic training.**

For information on La Cité collégiale, the new French-language college in eastern Ontario, see pages 39 and 66 and the publication *Tour d'horizon, 1990-1991*.

Pour de plus amples renseignements au sujet de La Cité collégiale, le nouveau collège de langue française de l'Est de l'Ontario, veuillez consulter les pages 39 et 66 ainsi que l'édition 1990-1991 de *Tour d'horizon*.

For information on postsecondary educational institutions offering programs in which the language of instruction is French, please see *Tour d'horizon, 1990-1991*, also published by the Ministry of Colleges and Universities, 8th Floor, Mowat Block, Toronto, Ontario M7A 2B4.

Pour obtenir plus de renseignements sur les établissements d'enseignement postsecondaire offrant des programmes d'études en français, veuillez consulter l'édition 1990-1991 de *Tour d'horizon*, que vous pouvez obtenir au ministère des Collèges et Universités, Édifice Mowat, 8e étage, Toronto (Ontario) M7A 2B4.

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Note:
With reference to admission requirements for postsecondary programs:

OSSD* = Ontario Secondary School Diploma (30 credits subject to the conditions specified in section 4.10 of *Ontario Schools: Intermediate and Senior Divisions (Grades 7-12/OACs), Program and Diploma Requirements, 1984*)

OSSGD† = Ontario Secondary School Graduation diploma (completion of 27 credits meeting Ministry of Education requirements)

OSSHGD‡ = Ontario Secondary School Honour Graduation Diploma (completion of six credits at the Grade 13 level)

*Available as of June 1986.
†Available up to August 31, 1989.
‡Available up to August 31, 1990.

Students' Costs

Total Costs

Total costs for an eight-month academic year at a post-secondary institution may vary from approximately $2 526 for a student living at home and attending a college of applied arts and technology (CAAT) to approximately $8 018 or more for a university student living on campus or boarding away from home.

Annual Tuition Fees

University tuition or academic fees may usually be paid in two instalments, depending on the institution. CAAT fees must generally be paid in one instalment. When accepting an offer of admission by a college of applied arts and technology, each applicant must submit a non-refundable confirmation fee, which is deducted from the full tuition fee. Some universities also require a deposit on tuition fees for limited-enrolment programs.

The figures below show the approximate range of annual fees for a full-time undergraduate in various subject areas for the 1989-90 academic year. Please note that incidental fees are not included. Specific fees are listed under individual universities and colleges. All fees are approximate and subject to change without notice.

University Degree Programs – Annual Fees (not including incidental fees)

arts	$1 477 – $2 096
commerce	$1 503 – $1 517
dentistry (not including kit fee)	$1 929
education	$1 503 – $1 517
engineering	$1 503 – $1 647
law	$1 516 – $1 517
medicine	$1 929 – $1 931
nursing	$ 882 – $1 745
physical education	$1 398 – $1 737
science	$1 503 – $2 096

Other Institutions – Annual Fees

Ontario College of Art (not including incidental fees)	$1 477
Colleges of Applied Arts and Technology (two terms)*	$685
Regional Schools for Nursing Assistants	$411
Royal Military College (not including incidental fees)	$1 080
Ryerson Polytechnical Institute (not including incidental fees)	$1 519

*Fees may vary according to length of program.

International Student Fees

The policy of the Ontario government is that international students admitted to Canada on student visas pay a higher proportion of the cost of their education than Canadian students do. Tuition fees for international students are therefore higher than for Canadians.

Certain international students are exempt from the higher fee. These students include diplomatic and consular officials and their dependants, individuals and their children and spouses admitted to Canada for the purpose of engaging in employment, Convention refugees, refugee claimants who applied for Convention refugee status prior to January 1, 1989, and their spouses and dependants, students sponsored by the Canadian International Development Agency, and students studying in Canada under eligible cultural exchanges. Students who are unsure about their status in this matter or who want more information are urged to contact the institution to which they are applying.

Tuition fees for international students registering in most programs at the colleges of applied arts and technology are $5 705 per two-term academic year.

Because the universities are autonomous in the area of determining tuition fees, the final decision on fees for international students is left to the board of governors. Generally, university international student fees range from $5 053 to $9 326 (per two-term academic year) for new registrants, depending on the institution and program chosen. Students are advised to check with the individual institutions for details on the actual fees charged to international students.

Transportation

At least $50 a month should be added to the living expenses of the student who is not within walking distance of classes. This figure will vary according to public transportation rates, car pool arrangements, and parking fees.

Books and Student Supplies

CAAT and university students should allow $355 to $705 per year for books and supplies. Students in specialized or professional university courses such as architecture, dentistry, and medicine, or in CAAT programs such as photography, cinematography, advertising, and graphic arts, may require additional funds for the purchase of books, instruments, and supplies.

Incidental (Ancillary) Fees

The ancillary fees charged by universities cover such costs as health insurance, athletics and recreational facilities, student government, and work-term placement. Such fees are collected as separate mandatory fees. At all postsecondary institutions, tuition-related fees such as laboratory, shop, and computer-use costs are included in the standard tuition fee. Specific information concerning all mandatory ancillary fees may be obtained by consulting the calendars of the various universities and colleges.

Application and Examination Fees
Students wishing to enter an Ontario university in any year must apply to the Ontario Universities' Application Centre. A $12 fee must accompany the common application form. For further information, please see the *General Information on Ontario Universities* section.

Students wishing to enter colleges of applied arts and technology must submit their applications to the college(s) of their choice. No application fee is required. Some institutions require fees from students writing special examinations. For further information, contact a secondary school guidance counsellor or a CAAT registrar.

Health Insurance
Most young people are covered under their parents' Ontario Health Insurance coverage, but when they marry, become 21 years of age, or take a full-time job they need their own Ontario Health Insurance number.

For more information, contact a local Ontario Health Insurance office. The telephone number appears under the heading "OHIP170 in the white or blue pages of the telephone directory.

Board and Lodging
All Ontario universities and some CAATs have residence facilities. Depending on meal plans and occupancy, residence costs range from approximately $2 700 to $4 420 or more for an academic year. Specific costs are listed under the individual universities in this publication and in university calendars. Students who choose board and lodging should allow at least $115 a week to cover these costs. All institutions maintain a housing registry, which lists available accommodation in the area.

Miscellaneous Expenses
In addition to the basic board, lodging, and tuition costs, incidental expenses must be considered in any estimate of the cost of a year at a university or college. Students should allow a weekly average of about $35 for miscellaneous items such as laundry, personal needs, and entertainment.

Financial Assistance for Students

Students who need financial assistance to attend a university, college of applied arts and technology (CAAT), or other postsecondary institution may be able to obtain it from government or private sources.

A number of corporations, veterans' organizations, and service clubs offer scholarships for general academic excellence or excellence in particular subjects, and most universities have entrance scholarships for outstanding scholars. Information on these bursaries and scholarships should be available from your guidance office or from university and CAAT calendars and financial aid offices.

About two of every five full-time students at Ontario's CAATs and universities receive government financial aid. The Ontario government administers the federal and provincial student assistance programs outlined below.

Ontario Student Assistance Program (OSAP)
OSAP is intended to help students who need money for postsecondary education. Academic excellence is not a qualification, although students are expected to progress satisfactorily in their studies. OSAP funds supplement, but do not replace, a student's own financial resources and those of his or her immediate family.

OSAP comprises six plans:

- Ontario Study Grant Plan
- Canada Student Loans Plan
- Ontario Student Loans Plan
- Ontario Special Bursary Plan
- Ontario Work-Study Plan
- Part-Time Canada Student Loans Plan

The main features of the program are summarized below. Full information is contained in the brochure *Ontario Student Assistance Program 1989-90*, which you may obtain from your guidance counsellor, from the Financial Aid Administrator at the institution you are planning to attend, or from the Ministry of Colleges and Universities (the address appears under the heading "Further Information", near the end of this section). Brochures describing OSAP for the 1990-91 academic year and application forms will be distributed to all Ontario secondary schools in the spring of 1990.

You can use the same application form to apply for an Ontario Study Grant, a Canada Student Loan, and an Ontario Student Loan. When your application is processed, the ministry first evaluates the amount of grant that you may receive from the Ontario Study Grant Plan. The ministry then considers your eligibility for loan assistance. You may decide for yourself how much of this additional loan assistance you wish to accept.

Separate application forms for the Ontario Special Bursary Plan and the Part-Time Canada Student Loans Plan are available from the Ministry of Colleges and Universities and from the financial aid offices at all Ontario universities and CAATs. Application forms are also available from institutions that offer the Ontario Work-Study Plan.

Eligibility

To qualify for OSAP assistance, you must be a Canadian citizen or permanent resident and meet Ontario's residency requirements. You may qualify for grant and loan assistance from OSAP if you plan to attend one of the following institutions in Ontario:

- a college of applied arts and technology
- a university
- a college of agricultural technology
- an Ontario regional school for nursing assistants
- an approved registered private postsecondary institution in Ontario
- an approved hairstyling school in Ontario (Canada Student Loans only)
- Canadian Memorial Chiropractic College
- Bar Admission Course
- Ontario College of Art
- Royal Conservatory of Music
- Royal Military College (Canada and Ontario Student Loans only)
- Ryerson Polytechnical Institute
- Toronto Institute of Medical Technology

Outside Ontario, you may qualify for Ontario Study Grant, Canada Student Loans, and Ontario Student Loans assistance if you plan to attend any university or approved college of applied arts and technology in Canada or a Canadian military college.

Ontario residents who wish to attend public or private postsecondary institutions elsewhere in the world may be eligible to receive loans through the Canada Student Loans Plan, but they will not be eligible for grants or Ontario Student Loans.

OSAP requires that you enrol in a program leading to a degree, diploma, or certificate. You may be eligible for a Canada Student Loan if your program of study lasts at least 12 weeks in one academic year and is a minimum of 60% of a full course load. For the Ontario Study Grant Plan your program must last at least 10 weeks, and for the Ontario Student Loans Plan at least 4 weeks.

The Ontario Study Grant Plan and the Ontario Student Loans Plan require that you take at least 20% of a full course load in order to apply for assistance. You can be either a full- or part-time student.

Calculating Your Financial Need

Under both the grant and loans plans, your financial need is calculated by subtracting your expected financial contribution from allowable educational expenses. You will receive financial assistance if these educational expenses are more than the amount of money that you or you and your family are expected to contribute toward these expenses. However, if your expected financial contribution is equal to or more than the costs of your postsecondary education, you will not receive any financial assistance from OSAP.

Allowable Educational Expenses

Allowable educational expenses include the actual or estimated costs of the following items, as determined by the institution you are planning to attend and approved by the ministry:

- tuition and compulsory fees
- books, equipment, and supplies
- personal and living expenses
- allowance for return trips home
- local travel allowance

Expected Financial Contribution

Depending upon your circumstances, your expected financial contribution may include amounts you are expected to have saved from summer earnings, or include a contribution from your earnings from part-time work after registration. Academic awards, other awards and income, government income, investment income, and a contribution from assets may also be considered as financial resources. If you are married or living in a common-law relationship, your spouse may be expected to contribute an amount based on his or her income and net assets.

In addition, if you are just leaving secondary school and applying for assistance to attend a postsecondary educational institution, your parents are likely to be expected to contribute to your basic educational costs, according to their financial resources. To determine their contribution, an objective assessment is made of your parents' income, and allowances are made for their basic expenses and the number of their dependants. A contribution from parents' net assets may also be considered as a financial resource.

Loan and Grant Assistance

Loans are usually interest free until six months after you cease to be an eligible student. Ontario Study Grants do not normally have to be repaid.

Applicants eligible for grants and loans may receive assistance up to the amount of their financial need, subject to the maximums under each plan. Under the Canada Student Loans Plan, applicants may obtain a maximum of $105 per week of their study period.

Under the Ontario Student Loans Plan, applicants may be eligible to receive up to $900 per term.

Where, When, and How to Apply for Financial Assistance

If you are planning to attend an Ontario college, university, or another eligible Ontario institution, you can get your OSAP application form directly from your guidance office or the institution's financial aid office. To apply for assistance in attending any other postsecondary institution, you can obtain the necessary forms from the Student Awards Branch of the Ministry of Colleges and Universities (the

address appears under the heading "Further Information", near the end of this section). When requesting your application form, please state the name of the institution you plan to attend.

Mail your OSAP application to the financial aid office at the institution you plan to attend, or take it to the office personally to be checked for completeness and accuracy. You may submit your application as soon as the forms are available, usually in April.

Your application should be submitted no later than July 1, in order to be processed for fall registration.

If you intend to enter a trimester or co-operative program, you should submit your application before the end of the first month of the semester to which the application refers.

To obtain further information about the Ontario Student Assistance Program, contact the financial aid office of the institution you plan to attend or the Student Awards Branch of the Ministry of Colleges and Universities.

Ontario Special Bursary Plan

The aim of the Ontario Special Bursary Plan is to encourage people in serious financial need to begin part-time postsecondary studies or take approved upgrading courses, so that they may improve their training and skills in order to enhance their job opportunities. You may be eligible for a bursary if:

- you are a Canadian citizen or a permanent resident who has been in Canada as a permanent resident for 12 consecutive months; and
- you have resided in Ontario for 12 consecutive months, not counting time spent as a full-time student; and
- you are receiving social assistance, are unemployed, or have a low family income; and
- you are taking or are intending to take one of the following:
  - credit courses (on a part-time basis) leading to a degree, diploma, or certificate; or
  - upgrading courses (either on a full- or part-time basis) offered by a college of applied arts and technology; or
  - in special cases, approved correspondence courses at certain institutions in Ontario;

and

- you are registered or are intending to register at one of the following Ontario postsecondary institutions:
  - a college of applied arts and technology;
  - the Ontario College of Art;
  - a registered private vocational school approved for Ontario Special Bursary Assistance;
  - Ryerson Polytechnical Institute; or
  - a university.

If you are eligible, you may receive a bursary to cover the cost of tuition and other compulsory fees, books and equipment, and local transportation expenses. You may also receive assistance for child-care expenses, if applicable. The maximum amount of assistance per academic year is $1 500.

Ontario Work-Study Plan

The Ontario Work-Study Plan is designed to help financially needy students meet their educational costs by partially funding part-time work during the school year, thereby reducing dependence on loan funding.

This plan is available at many Ontario CAATs and universities. It is operated on a cost-sharing basis – 50% is paid by the Ontario government and 50% is paid by the sponsoring agency (the institution, a student organization, etc.).

Part-Time Canada Student Loans Plan

The purpose of this plan is to provide needy part-time students with guaranteed loans that will help to cover the cost of tuition fees, books, learning materials, transportation, child care, and other related expenses.

You may be eligible for a Canada Student Loan for part-time studies if:

- you are a Canadian citizen or permanent resident; and
- you are attending or planning to attend an approved postsecondary institution in Canada; and
- you are a resident of Ontario; and
- you have a gross family income no greater than the amount outlined in the table below; and
- you are not in default on a previous Part-Time Canada Student Loan or Ontario Student Loan; and
- you are taking between 20% and 60% of a full-time course load; and
- you have an outstanding principal balance on previous Part-Time Canada Student Loans of less than $2 500.

	Maximum income	No. of dependants
Single student	$24 500	–
Married student*	$27 260	1
	$30 660	2
	$34 060	3
	$37 450	4
	$40 850	5
	$44 250	6 or more

*For the purpose of OSAP, a single student with one or more dependent children is considered "married".

Fellowships and Bursaries for Second-Language Study

There are a number of federal-provincial programs related to Canada's two official languages. These include:

- *Bursaries for Summer French Courses for Francophones Outside of Quebec*

A bursary of $1 350 is available to eligible francophone students in Ontario who wish to perfect their mother tongue and improve their knowledge of their own culture. Students in their second-to-last year of secondary school studies take

the course at the Cégep de Jonquiere or at the Centre universitaire de Moncton. Students who have completed their secondary school studies can take the course at the Université du Québec à Trois-Rivières.

• *Fellowships for Studying in French*
A program funded by the Secretary of State, providing fellowships for the first year of study in any discipline taken in the French language at the graduate or undergraduate level in a French-language or bilingual Canadian university or college of applied arts and technology in Ontario, or in a French-language CEGEP in Quebec. Eligible students may receive up to $1 000 if the program of study is available within 50 kilometres of the student's permanent residence, and up to $2 000 if the program is not available within 50 kilometres.

• *Summer Language Bursary Program*
This bursary program, funded by the Secretary of State for summer language study, gives institutions $1 350 to cover the cost of tuition, board and lodging, and cultural activities for each student taking immersion courses in a second official language, either English or French. Participants must be full-time students and must have general postsecondary standing at the time of application or have attained such standing by the time they become involved in the program.

Further Information
For further information on any of these financial assistance programs, contact your guidance counsellor, Financial Aid Administrator, or
Student Awards Branch
Ministry of Colleges and Universities
P.O. Box 4500
Thunder Bay, Ontario
P7B 6G9
Telephone (807) 345-4830
Toll-free 1-800-465-3013

The following three monitor programs are administered by the Ministry of Education through the Education Liaison and Exchange Branch.

• *Full-Time Monitor Program*
This is aimed at students who have completed at least one year of university study and who are prepared to be monitors from September to June. The remuneration is $9 000. The monitors may be French- or English-speaking students. They are normally required to leave their home province and are assigned to rural or semi-urban areas, where they will help other students improve their conversational skills in either English or French.

• *Monitor Program for Francophones Outside Quebec*
This program is available to students who are registered full-time at a postsecondary institution. The program offers students the opportunity to work as monitors to help francophone students in minority areas perfect their native language and enrich their knowledge of francophone culture. The remuneration for ten months' participation in the program is $9 000.

• *Second-Language Monitor Program*
A program providing a maximum of $3 200 to selected full-time university students in Canada who work part-time in educational institutions as second-language monitors. This program usually applies to monitors working and studying outside their home province.

For further information, please contact
Ministry of Education
Education Liaison and Exchange Branch
14th Floor
Mowat Block, Queen's Park
Toronto, Ontario
M7A 1L2
Telephone (416) 965-5996

Financial Support from the Federal Government
The Canada Employment and Immigration Commission (CEIC) provides financial support for participants in some college certificate and diploma programs, under the Canada-Ontario training agreement of 1982.

For those applicants who meet the eligibility criteria, the CEIC may provide income support – in the form of Unemployment Insurance benefits or a weekly allowance – and may pay for the participant's tuition.

Further Information
For further information on CEIC support, contact the local Canada Employment Centre (listed in the blue pages of the telephone book under "Government of Canada/Employment and Immigration Canada") or the college.

Ontario Scholarships
Awards of $100 are made on the recommendation of secondary school principals to Grade 13 students who have an overall average of 80% or better in six Grade 13/OAC credits. Additional information may be obtained from your high school guidance office.

General Information on Colleges of Applied Arts and Technology

Ontario's colleges of applied arts and technology (CAATs) provide students with the opportunity to develop the skills necessary to prepare for rewarding careers in business, the applied arts, technology, and health sciences.

The 22 CAATs, with more than 100 campuses throughout Ontario, serve all of the province's economic regions. During 1988-89, the CAATs had an enrolment of approximately 111 000 full-time students in certificate and diploma programs, in addition to those attending college as part of their apprenticeship training. The number of part-time registrations was approximately 751 000 in 1987.

CAATs offer a variety of full- and part-time career-oriented programs for secondary school graduates and for mature students who have not completed secondary school.

Most CAAT programs fall into two categories – diploma programs, which last at least four semesters (usually over a two- or three-year period), and certificate programs, which last one year or less. A "program" consists of a number of "courses" leading toward a diploma or certificate. For instance, a diploma program in mechanical engineering technology might include courses in mathematics, drafting, the mechanics of metals, machine tools, etc.

Some programs are offered on a part-time basis; students may complete courses leading toward a certificate or diploma during the evening or on weekends. Colleges also offer non-credit career-oriented courses and non-credit general interest courses. To determine whether a particular program or course is offered, contact the CAAT in your area.

General Admission Requirements

The following persons are eligible to apply for admission to CAAT programs:

- those who hold, at least, an Ontario Secondary School Diploma (OSSD);
- mature students who are 19 years of age on or before the date of commencement of the program in which they plan to enrol.

Specific admission requirements vary from program to program; therefore, applicants should consult the calendar of the CAAT they plan to attend. Calendars may be obtained from secondary school guidance offices or directly from the college registrar.

In cases in which the number of students eligible for a program exceeds the number of places available, qualified applicants will be admitted in the following order of preference: permanent residents of Ontario, permanent residents of other Canadian provinces or territories, and international students.

Additional and Special Admission Requirements

After some of the program descriptions in the college-by-college listing there may be a section entitled *Additional Admission Requirements* or *Special Admission Requirements*, which lists specific requirements for admission to the programs.

The requirements listed under the heading *Additional Admission Requirements* are in addition to the OSSD and apply to all programs in the listing unless indicated otherwise.

Under the heading *Special Admission Requirements* are listed the requirements for admission to special programs.

Schedule of Important Dates 1990

March 1

Applications postmarked with this date or earlier will be given equal consideration in the application process.

April 15

Colleges release first offers of admission for programs beginning in September 1990.

Programs Offered

Most programs offered at the CAATs are described in the college-by-college listing in four broad categories: Applied Arts *or* Arts and Science – general and applied; Business; Health Sciences; and Technology.

The listing also includes descriptions of:

- college preparatory programs for academic upgrading
- alternative programs
- continuing education
- special programs

For a summary listing of programs offered by individual colleges, students can consult the CAAT program charts on the following pages and the listings in particular college sections. For specific information on any program or course, students should consult individual college calendars or visit their nearest college.

How to Use the CAAT Charts

An alphabetical cross-reference index accompanies the CAAT charts. Also, a uniform style is maintained for most "Technician", "Techniques", and "Technology" programs. These terms are abbreviated and listed alphabetically:

"Technician"...is shown as..."Tn"
"Techniques"...is shown as..."Tques"
"Technology"...is shown as..."Ty"

To find a subject in the charts:

1. locate the desired program name in the index;
2. note the code number that follows this name; and
3. turn back to the appropriate numerically coded listing in the CAAT charts.

Some Information About Nursing Programs

Basic-level preparation for the practice of nursing can be obtained through either diploma or degree programs. Upon successful completion of either type of program, graduates are eligible for admission to the examination conducted by the regulatory body, the College of Nurses of Ontario, to qualify for practice as registered nurses in Ontario.

Colleges of applied arts and technology offer diploma nursing programs primarily in a three-year academic format, with some colleges providing programs in two and one-half

years. Both program formats contain theoretical content and clinical experience that is in keeping with the provincial standards for nursing programs.

Diploma nursing programs are offered in all colleges. Degree programs are available at eight universities and at Ryerson Polytechnical Institute. The Government of Ontario has reaffirmed its position that both diploma and degree nursing programs are acceptable routes for gaining entry to the practice of nursing.

Some Information About Technology Programs
CAATs offer three types of training programs in technology:

• *Technologist Programs*
A technologist performs a variety of technological functions in a physical science or engineering specialization, typically in support of research, development, design, quality control, or production activites, using knowledge of scientific, mathematical, and engineering principles and practices.

A typical full-time technologist program in the CAATs takes six semesters or three years (from September to April).

• *Technician Programs*
A technician performs a limited number of technical functions in a physical science or engineering specialization, typically in relation to installation, operation, maintenance, quality control, or production planning, using a basic knowledge of specific scientific, mathematical, and engineering principles and practices. A typical full-time technician program takes four semesters or two years (from September to April).

CAATs also offer non-semestered technician programs in selected occupations. These programs may be somewhat shorter because of continuous operation during the summer months. Individuals may be supported in these programs by Employment and Immigration Canada (EIC) under the Canada-Ontario Agreement on Training. The EIC may pay tuition costs and provide either a weekly Unemployment Insurance benefit or a weekly allowance. Students referred to a college away from their place of residence may receive travel and living-away-from-home allowances.

• *Certificate Programs*
The graduates of certificate programs perform a very limited number of technical functions in an engineering specialization, typically in relation to fabrication, installation, or routine maintenance, using a well-defined set of engineering practices.

In some cases, students participating in certificate programs are supported by Employment and Immigration Canada (EIC) under the Canada-Ontario Agreement on Institutional Training and Training Services. The EIC may pay tuition fees on behalf of the student and provide income support during the training program – through either Unemployment Insurance benefits or a training allowance. Other students pay their own fees. The course of study is the same for both fee-payers and federally supported students. Some persons may have to take a college preparatory course before entering a certificate program. Further information about federal assistance is available from the local Canada Employment Centre or from the CAAT. *Note:* Certificate programs are also offered in other fields of study.

Technological Careers for Women: Traditionally, few women have entered technological careers, but CAATs are encouraging and assisting women to prepare for careers in non-traditional occupations.

Of course, all CAAT programs are open to both men and women. Some women may require preparatory training before selecting a career and beginning training. Therefore, a number of CAATs offer courses specifically for women interested in careers in technology; they are listed on page 29.

College Preparatory Programs for Academic Upgrading
College preparatory programs are designed to help mature students prepare for their next academic or skill-training step. One of the major college preparatory programs is Basic Training for Skill Development (BTSD).

Before beginning an upgrading program, students must normally take a test to assess their academic background and level. Working at their own pace, students must meet specified objectives before continuing to the next level. Certificates are issued for each BTSD program completed. Students should be aware that they cannot apply certificates received for completing a BTSD program toward an OSSD. Completion of an upgrading program in a specific area (academic, technical, etc.) will prepare students to enter a college-level program in that area at any CAAT.

Fees are charged, but students may be eligible to receive financial support from the Canada Employment and Immigration Commission under the Canada-Ontario Agreement on Institutional Training and Training Services.

Alternative Programs
In addition to offering the programs listed above, CAATs play a vital role in a number of other programs administered by the Ministry of Skills Development:

• *Apprenticeship*
CAATs provide the institutional portion of training under the apprenticeship program. Apprentices spend about 90% of their training program learning on-the-job; however, they do attend CAATs to learn skills they might not have learned in the workplace. For instance, a general machinist apprentice attends a CAAT three times during the four-year apprenticeship program. These college terms – called Basic, Intermediate, and Advanced – each last two months. The number and length of in-college terms varies from occupation to occupation. Apprentices attending CAATs may receive financial support from the Canada Employment and Immigration Commission, under the Canada-Ontario Agreement on Institutional Training and Training Services. Further information on apprenticeship is provided in the *Apprenticeship* section of this directory.

• *Futures*

The Futures program helps unemployed young people to find and maintain a permanent job. It provides them with counselling, work experience, job skills, and educational upgrading. Futures is delivered through Youth Employment Counselling Centres and CAATs in Ontario.

To be eligible for Futures, participants must be: out of school, with less than a Grade 12 education, and out of work for at least 12 weeks, *or* out of school, with a Grade 12 education (or more), and out of work for 20 weeks; under 25 years of age; and living in Ontario and legally able to work in Canada. Employment-disadvantaged youth lacking Grade 12 may be eligible if they have had 16 weeks of accumulated unemployment over the preceding year.

Futures offers several options:

Pre-Employment Preparation assists young people who lack social and work skills. Counsellors will help these young people to prepare for employment through a well-designed training plan. Participants are paid $125 a week during this period.

Basic Work Placements offer 16 weeks of work experience in a suitable job. Progress is monitored by the counsellor and the employer. Participants are paid the current minimum wage.

Enhanced Training provides opportunities for more intensive, in-depth training to suitable Futures participants.

Guarantee Option provides to youth lacking secondary school graduation up to one full year of work placements on the condition that the participants make a commitment to upgrade their education.

Part-Time Work/Part-Time School Option provides guaranteed part-time work placements for one year to participants who lack a Grade 12 secondary school graduation, and who agree to undertake current part-time study to complete at least three credits toward their diplomas. Participants will be paid $100 per week, for time spent in upgrading, as well as the minimum wage for part-time work hours. They will also receive assistance in arranging and paying for the upgrading.

• *Ontario Management Development Program*

This program is designed to help managers improve their supervisory skills in human relations, effective communication, and planning. It is offered at most CAATs and in many workplaces. For more information, contact your employer or the industrial training consultant at your nearest CAAT.

• *Industrial Training*

CAATs also help employers establish on-the-job training programs. Employers may receive financial support for these programs from the Canada Employment and Immigration Commission under the Canada-Ontario Agreement on Institutional Training and Training Services. For more information, telephone the Training Hotline at 1-800-387-5656 or the Regional Apprenticeship office nearest you.

Continuing Education

Continuing education provides all members of the community with an opportunity to learn at a time and place convenient to them.

Most CAATs offer a variety of credit and non-credit courses. Courses can usually be taken on a part-time day or evening basis throughout the year. Depending on the CAAT and its programs, students may work toward a certificate or diploma. In addition, most CAATs offer non-credit courses covering a broad range of career-oriented and general-interest subjects.

In general, these courses are offered on CAAT campuses, but many are offered in other locations, such as churches, secondary schools, and community centres.

For lists of courses and programs offered through continuing education, contact individual CAATs.

Transfer Possibilities for CAAT Graduates

While it is not intended that the CAATs should act as feeder institutions to the universities, graduates of two-year programs may be accepted on an individual basis for admission to the first year of certain university programs.

In some instances, qualified graduates of the three-year programs may be admitted to the second year of related university programs. For example, a graduate from an engineering technology program may qualify for admission to a university degree program in engineering, if a place is available. Decisions about the admissibility of individual CAAT graduates to degree programs are made by the admissions officers of the universities concerned.

Fees

Tuition fees are $685 per academic year for most full-time diploma programs. Fees may vary, however, according to program length. Tuition fees for short programs are $19.15 per week and $1.60 per hour for part-time courses. Fees for international students (per two-term academic year) are $5 705. All of the above fees are subject to change. See the introductory section *Students' Costs* for further information.

Other Facilities

Students should check with CAAT housing or student services offices regarding residence facilities or lists of off-campus housing. Each CAAT operates counselling services and health centres, and most have a wide range of sports facilities, resource centres, and job placement services.

Further Information

For more detailed information on CAATs, check the individual CAAT sections in this publication, consult CAAT calendars, which are available in secondary school guidance offices, or get in touch with the registrar's office of individual CAATs. Additional information may be obtained from

Ministry of Colleges and Universities
Inquiries Unit, 13th Floor
Mowat Block, Queen's Park
Toronto, Ontario M7A 1L2
Telephone (416) 965-6407

Names and Addresses of Colleges of Applied Arts and Technology

Philip T. Killeen, President
Algonquin College of Applied Arts and Technology
1385 Woodroffe Avenue
Nepean, Ontario K2G 1V8
For general information telephone
(613) 727-7603, 727-7606
Toll-free 1-800-267-7061

Glenn N. Crombie, President
Cambrian College of Applied Arts and Technology
1400 Barrydowne Road
Station A
Sudbury, Ontario P3A 3V8
For general information telephone
(705) 566-8101 ext. 7503, 7544

Murray A. Hewgill, President
Canadore College of Applied Arts and Technology
P.O. Box 5001
Gormanville Road
North Bay, Ontario P1B 8K9
For general information telephone
(705) 474-7600 ext. 123, 131, 132, 501, 502, 509
Toll-free 1-800-461-7340

I. Bev McCauley, President
Centennial College of Applied Arts and Technology
41 Progress Court
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
For general information telephone
(416) 694-3241 ext. 3312, 3319
Toll-free 1-800-268-4419

John W. Tibbits, President
Conestoga College of Applied Arts and Technology
299 Doon Valley Drive
Kitchener, Ontario N2G 4M4
For general information telephone
(519) 748-3516

Roy V. Murray, President
Confederation College of Applied Arts and Technology
P.O. Box 398, Station F
Off Edward Street
Thunder Bay, Ontario P7C 4W1
For general information telephone
(807) 475- 6110
Toll-free 1-800-465-4961, 1-800-465-6962

Gary Polonsky, President
Durham College of Applied Arts and Technology
P.O. Box 385
2000 Simcoe Street North
Oshawa, Ontario L1H 7L7
For general information telephone
(416) 576-0210

Dr. Barry Moore, President
Fanshawe College of Applied Arts and Technology
1460 Oxford Street East
London, Ontario N5W 5H1
For general information telephone
(519) 452-4100

Douglas E. Light, President
George Brown College of Applied Arts and Technology
P.O. Box 1015, Station B
500 MacPherson Avenue
Toronto, Ontario M5T 2T9
For general information telephone
(416) 867-2000

Wayne F.J. Busch, President
Georgian College of Applied Arts and Technology
One Georgian Drive
Barrie, Ontario L4M 3X9
For general information telephone
(705) 728-1951, 722-1511
Toll-free 1-800-461-9696

Robert A. Gordon, President
Humber College of Applied Arts and Technology
P.O. Box 1900
205 Humber College Boulevard
Etobicoke, Ontario M9W 5L7
For general information telephone
(416) 675-5000

Andrée Lortie, Acting President
La Cité collégiale, collège d'arts appliqués et de technologie
1400 Blair Place
Room 707
Gloucester, Ontario K1J 9B8
For general information telephone
(613) 744-5050
Toll-free 1-800-267-CITÉ (2483)
(see pages 39 and 66)

Tony Wilkinson, President
Lambton College of Applied Arts and Technology
P.O. Box 969
1457 London Road
Sarnia, Ontario N7T 7K4
For general information telephone
(519) 542-7751

Douglas Auld, President
Loyalist College of Applied Arts and Technology
P.O. Box 4200
Wallbridge/Loyalist Road
Belleville, Ontario K8N 5B9
For general information telephone
(613) 962-9501

Keith L. McIntyre, President
Mohawk College of Applied Arts and Technology
135 Fennell Avenue West
Hamilton, Ontario L8N 3T2
For general information telephone
(416) 575-2000, 575-2115

Jacqueline P. Robarts, President
Niagara College of Applied Arts and Technology
P.O. Box 1005
Woodlawn Road
Welland, Ontario L3B 5S2
For general information telephone
(416) 735-2211 ext. 542

R. J. Gervais, President
Northern College of Applied Arts and Technology
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
For general information telephone
(705) 235-3211

Albert L. Martin
St. Clair College of Applied Arts and Technology
2000 Talbot Road West
Windsor, Ontario N9A 6S4
For general information telephone
(519) 972-2727

W. William Cruden, President
St. Lawrence College Saint-Laurent
2288 Parkedale Avenue
Brockville, Ontario K6V 5X3
For general information telephone
(613) 345-0660

P. R. Doyle, President
Sault College of Applied Arts and Technology
P.O. Box 60
443 Northern Avenue
Sault Ste. Marie, Ontario P6A 5L3
For general information telephone
(705) 759-6700
Toll-free 1-800-461-2260

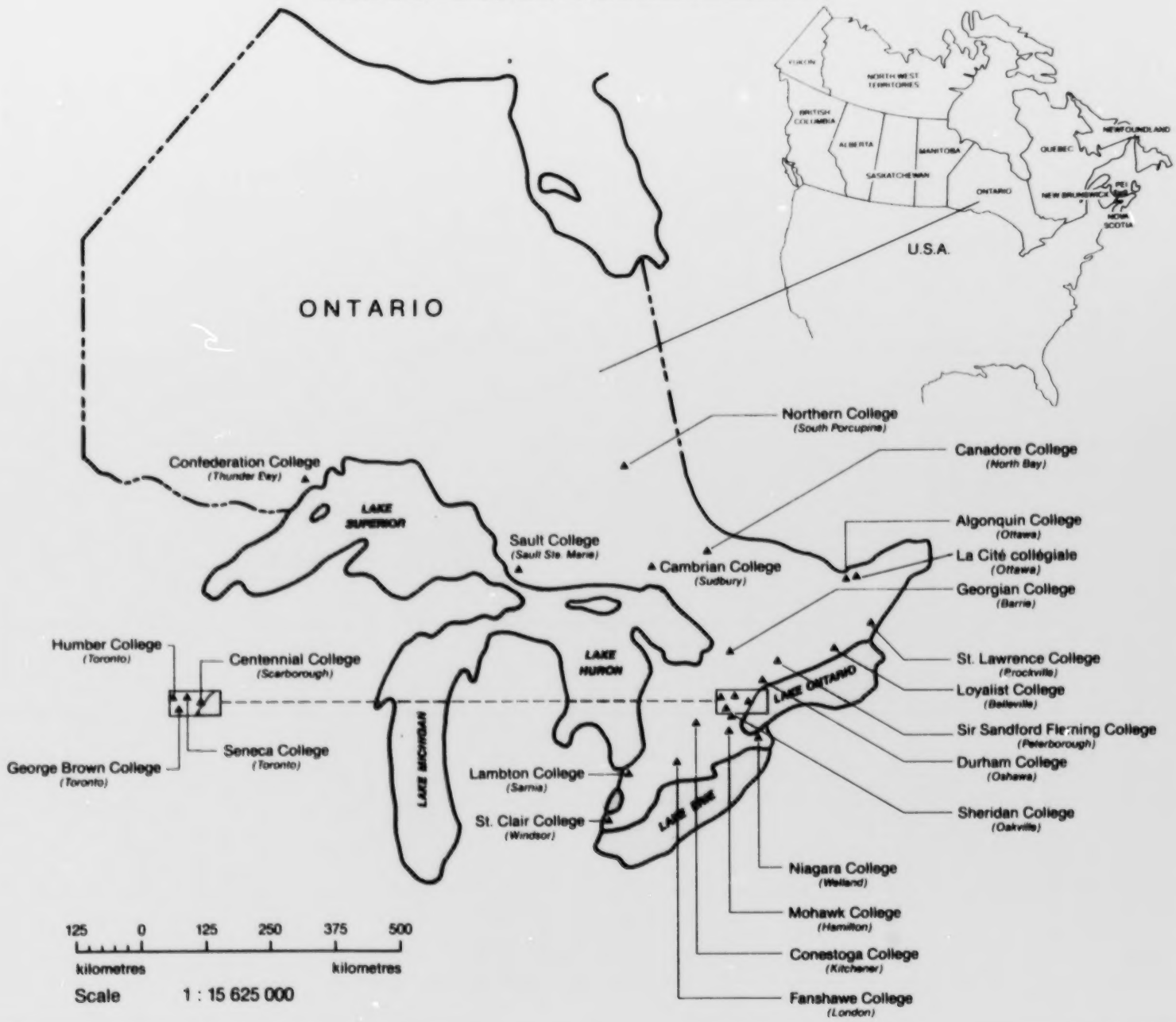
W. R. McCutcheon, President
Seneca College of Applied Arts and Technology
1750 Finch Avenue East
North York, Ontario M2J 2X5
For general information telephone
(416) 491-5050

Mary E. Hofstetter, President
Sheridan College of Applied Arts and Technology
1430 Trafalgar Road
Oakville, Ontario L6H 2L1
For general information telephone
(416) 849-2800, 849-2816, 845-9430 ext. 200

Dr. Brian L. Desbiens, President
Sir Sandford Fleming College of Applied Arts and Technology
P.O. Box 653
526 McDonnel Street
Peterborough, Ontario K9J 7B1
For general information telephone
(705) 743-5620
Toll-free 1-800-461-6423

Geographic Distribution of Ontario Colleges of Applied Arts and Technology (Main Campuses)

(Please contact the main campus of each college for location of affiliated campuses.)



French-language programs currently offered at Algonquin and St. Lawrence colleges will be transferred to La Cité collégiale (see page 39).

Legend

- ▪ : Program is offered at the college indicated. Call the college for details.
- ■ : Program is also offered in French.
- ▪̄ : Program is bilingual.
- ○ : Program is possible.
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- Tn : Technician.
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Apprenticeships

	Algonquin (Ottawa)	Algonquin (Pembroke)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	Northern (Kirkland Lake)	Northern (Haileybury)	St. Clair (Windsor)	St. Lawrence (Kingston)	St. Lawrence (Brockville)	St. Lawrence (Cornwall)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)	Sir Sandford Fleming (Lindsay)
001 Regulated Apprenticeships																												
002 Alignment & Brakes Mechanic					▪																							
003 Auto Body Repairer	▪				▪				▪																			
004 Automotive Machinist					▪																							
005 Automotive Painter					▪																							
006 Baker	▪									▪																		
007 Barber										▪																		
008 Boilermaker (Construction)					▪							▪																
009 Boilermaker (Shop)													▪															
010 Brick & Stone Mason										▪																	▪	
011 Cabinetmaking									▪																			
012 Carpenter, Forming (Preapprenticeship)																					▪							
013 Carpenter, General	▪	▪	▪			▪	▪		▪	▪	▪				▪					▪							▪	
014 Cook	▪					▪			▪	▪	▪	▪				▪								▪				
015 Electrical Motor & Apparatus Rewinding & Repair						▪																						
016 Electrician	▪					▪	▪	▪	▪	▪		▪			▪		▪			▪	▪			▪			▪	
017 Farm Equipment Mechanic									▪																			
018 Fitter - Welder			▪			▪		▪	▪	▪					▪									▪		▪		
019 Fuel & Electrical Systems Mechanic					▪																							
020 Glazier & Metal Mechanic	○									▪																		
021 Hairdresser - Hairstylist	▪								▪	▪		▪																
022 Heavy Duty Equipment Mechanic			▪		▪		▪										▪			▪				▪				
023 Industrial Electrician								▪	▪															▪				
024 Industrial Woodworker	▪					▪			▪			▪								▪	▪							
025 Ironworker										▪																		
026 Lather	▪																											
027 Machinist, General	▪		▪		▪	▪		▪	▪	▪	▪	▪		▪	▪	▪							▪			▪	▪	
028 Millwright			▪			▪	▪	▪	▪	▪	▪				▪	▪	▪			▪			▪	▪		▪	▪	
029 Millwright (Refresher)			▪																									
030 Motor Vehicle Mechanic	▪	▪		▪	▪	▪	▪	▪	▪					▪	▪	▪	▪			▪			▪	▪				
031 Motor Vehicle Mechanic (Truck / Coach) – Map 40									▪						▪								▪	▪				
032 Motorcycle Mechanic					▪																							
033 Mould Maker					▪	▪		▪	▪	▪																▪		
034 Painter & Decorator												▪																
035 Plumber	▪					▪			▪	▪		▪			▪					▪	▪			▪				
036 Precision Metal Fabrication	▪																											
037 Radio & Television Tn										▪																		
038 Refrigeration & Air-conditioning Mechanic	▪									▪					▪													
039 Saw Filer Fitter																○												
040 Sheet Metal Worker	▪								▪	▪		▪			▪													
041 Sprinkler & Fire Protection Installer										▪																		
042 Steam Fitter								▪		▪														▪				
043 Tool & Die Maker					▪	▪		▪	▪	▪	▪	▪			▪	▪										▪	▪	
044 Transmission Mechanic					▪																							
045 Truck / Trailer Repairer					▪																							
046 Other Apprenticeships																												
047 Fitter, Structural Steel Plate Work			▪							▪													▪			▪		
048 Horticulturist	▪											▪																
049 Industrial Electrician								▪																				

Legend

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- ‡ : Program is bilingual.
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050 Industrial Electronic Controls							*			*					*		*							*				
051 Industrial Woodworker	*					*			*						*													
052 Maintenance Tn																								*				
053 Marine & Small Engine Mechanic					*		*																	*		*		
054 Plastics Mechanic																										*		
055 Precision Metal Fabrication	*							*																				
056 Retail Meat Cutter	*									*																		
057 Stationary Engineering													*															
058 Stationary Engineering (3rd / 4th Class)			*				*						*		*	*					*			*				
059 Stationary Engineering (2nd Class)																								*				
060 Truck & Coach Repairer					*																			*				
061 Water Well Driller																												*

Diploma Programs†

French-language programs currently offered at Algonquin and St. Lawrence colleges will be transferred to La Cité collégiale (see page 39).

062 Arts, Visual, Creative, General																												
063 Advertising Art	*‡					*			*											*				*				
064 Animation / Illustration	*																								*			
065 Apparel Manufacturing Management										*																		
066 Art & Art History																									*			
067 Art Conservation Tques																										*		
068 Art Fundamentals													*															
069 Arts Administration			*‡									*													*		*	
070 College Vocational / Opportunities			*	*			*					*		*		*	*								*		*	
071 Commercial Art & Design / Packaging Design												*			*					*				*				
072 Commercial Ceramics										*																		
073 Community Integration Through Co-operative Education												*																
074 Computer Animation																										*		
075 Computer Graphics																									*	*	*	
076 Crafts & Design / Material Arts / Furniture Accessory				*																				*		*		
077 Creative & / or Commercial Arts & Crafts[1]					*						*													*		*		
078 Design Arts / Basic Design / Fundamentals											*	*												*	*	*		
079 Esthetician										*																*		
080 Fashion Arts / Modelling / Design / Merchandising			*		*				*	*	*	*				*					*				*	*	*	
081 Fine Arts & Crafts / Administration			*						*				*			*	*				*	*	*	*			*	
082 Florist, Retail	*											*													*			
083 General Arts & Science	*‡	*	*‡	*	*	*	*	*	*	*	*	*	*	*	*	*				*	*	*	*	*	*	*	*	*
084 Graphic Arts Reproduction: Production Co-ordinator															*													
085 Graphic Design / Fundamentals	*‡		*			*		*		*	*	*	⊙								*		*			*		
086 Graphic Sign Design & Production										*																		
087 Horsemanship / Equine Care / Harness / Horse Industry Operation												*			*										*			
088 Industrial Design									*		*	*																
089 Interior Design / Decorating	*‡				*		*	*	*		*	*				*				*						*		
090 Jewellery & Metal Arts / Repairs / Watchmaking										*	*																	
091 Landscape Design / Grounds Maintenance	*‡				-				*			*	*							*								

†Diploma Programs are of 4 semesters' duration or more. Some of the programs listed in this section are certificate programs. Call the college for details. 1. May include: Art Resources, Bookbinding, Ceramics, Fabrics, Glass, visual Arts.

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- ‡ : Program is bilingual.
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092 Music			*									*																
093 Music Recording / Production									*						*													
094 Painting			*																					*				
095 Pottery			*																									
096 Sign Writing (Commercial Art) / Screen Printing / Print Making			*							*														*				
097 Theatre Arts / Performing Arts										*		*													*			
098 Urban Design									*																			
099 Visual Arts: Merchandising																							*	*	*			
100 Business: Accounting																												
101 Accounting	*‡		*‡	*	*		*	*	*	*	*	*	*	*	*	*	*‡	*‡		*	*		*‡	*	*			
102 Accounting Clerk Microcomputer																								*				
103 Business: Office Administration					*			*																		*		
104 Finance					*		*	*																*	*			
105 Public Assessment / Real Property Appraisal / Administration														*										*				
106 Business: Administration & Management																												
107 Air-Carrier / Airport Management							*				*																	
108 Business	*‡	*	*‡	*‡	*	*	*	*	*	*		*	*	*	*		*‡	*‡				*‡		*	*	*		
109 Business Accounting	*‡		*‡	*‡	*		*		*	*	*				*	*	*‡	*‡		*		*	*	*	*	*		
110 Business Administration	*‡	*	*‡	*‡	*	*	*			*	*	*	*	*	*	*	*‡	*‡		*		*	*	*	*	*		
111 Business Administration: Accounting	*‡		*‡	*‡	*	*				*	*	*			*		*‡	*‡		*			*		*			
112 Business Administration: Automotive Marketing					*						*				*								*		*			
113 Business Administration: Finance	*							*							*						*							
114 Business Administration: Human Resources	*		*												*						*							
115 Business Administration: Information Systems	*‡		*		*			*													*				*			
116 Business Administration: Marketing	*‡		*‡	*‡	*	*		*	*	*	*		*		*	*	*‡	*‡		*	*			*	*	*		
117 Business Administration: Materials / Inventory Management	*				*	*		*																				
118 Business Finance / Financial Services Administration	*							*	*			*														*		
119 Business Retail Management	*																											
120 Business: Transportation & Distribution Management																												
121 Business Ty: Information / Communication Systems					*			*	*												*				*			
122 Construction Management / Residential					*					*																		
123 Corporate Administration																												
124 Farm Business Management									*																*			
125 General Management	A*				*						*																*	
126 Human Resources Management (Post-Diploma)											*						*‡	*‡				*‡	*‡					
127 Human Services Administration											*													*				
128 Industrial Administration / Management					*			*	*																*			
129 Insurance										*					*													
130 International[2] Business					*																			*		*		
131 International Traffic / Customs Administration / Pacific Export																								*		*		
132 International Traffic & Customs Assistant																								*				
133 Legal / Office Administration / Assistant	*‡		*‡	*	*			*	*		*	*			*	*			*	*			*	*		*		
134 Materials Management / Purchasing	*				*	*		*	*																	*		
135 Municipal / Public Administration / Government Administration					*				*															*				
136 Museum Ty	*																											
137 Office Systems Administration			*		*	*		*	*			*								*	*	*			*	*		
138 Performing Arts, Management							*																					
139 Personnel Administration / Labour Relations / Human Resources Mgt	*						*	*	*																	*		
140 Production & / or Operating Management					*										*													

2. Seneca also offers a post-diploma program.

Legend

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141	Property Mgt / Real Estate / Insurance / Standards / Assessment									*	*																		
142	Recreation Marine Management																					○							
143	Retail Administration: Management					*					*		*				*				*						*		
144	**Business: Information Systems**																												
145	Business: Computer Systems					*																				*			
146	Business Information Systems	*‡		‡			*		*		*						*	*			*				*		*		
147	Computer Accounting Applications																*												
148	Computer Information Systems			*‡		*			*				*	*			*								*		*		
149	Computer Operations: Data Processing & Analysis	*‡		*‡	*	*	*	*	*	*		*		*	*		*	*‡			*	*	*	*‡	*	*	*		
150	Computer Programmer	*‡			*	*	*		*	*	*	*	*	*	*		*	*‡	*‡		*	*	*		*	*	*		
151	Computer Systems Analysis	*‡				*			*				*	*	*		*				*				*	*	*		
152	Engineering Applications Programmer																												
153	Information Processing					*															*					*			
154	Microcomputer Business Applications					*					*		*		*														
155	Microcomputer Management			‡	*			*					*																
156	Microcomputer Support Analyst																									*			
157	Records: Information Management	*									*															*			
158	Word Processing: Microcomputer Applications	*							*												*					*			
159	**Business: Marketing, Sales**																												
160	Advertising Media Sales												*																
161	Business Marketing	*‡		‡		*		*	*	*	*	*			*	*			*		*	*	*		*	*			
162	Business: Sales	*‡									*				*		*									*		*	
163	Direct Marketing					*									*														
164	Insurance										*					*													
165	Marketing	*‡		*‡	*	*	*	*	*	*	*	*	*	*	*	*	*	*‡	*‡		*	*	*		*	*	*	*		
166	Marketing Management (Post-Diploma)												*																
167	Parts Management & Merchandising					*										*													
168	Physical Distribution					*					*																		
169	Retail Marketing: Fashion / Home Furnishings					*			*			*											*		*	*		*	
170	Sales & Merchandising: Recreational Sales / Technical Sales										*						*								*			*	
171	**Business: Secretarial**																												
172	Court Reporting										*																		
173	Office Administration	*‡		*‡	*												*	*‡	*‡					*‡		*			
174	Office Administration									*																			
175	Office Administration: Executive	*‡	*	*‡	*	*	*	*	*	*	*		*	*			*			*				*			*	*	
176	Office Administration: General	*‡	*	*‡	*‡	*		*	*	*	*	*	*	*	*	*	*	*‡	*‡	*				*		*	*		
177	Office Administration: Information Management	*		*‡			*			*	*			*				*‡	*‡					*			*		
178	Office Administration: Legal	*		*‡	*	*		*	*	*	*	*	*	*	*	*		*‡	*‡		*			*	*	*	*	*	
179	Office Administration: Medical	*		*‡	*	*		*	*	*	*	*	*	*	*	*		*‡	*‡	*	*					*	*	*	
180	Office Administration: Word Processing	*			*	*			*				*					*‡	*‡	*	*				*	*	*	*	
181	Secretarial Science									*																			
182	**Communications**																												
183	Advertising, Creative & / or Business / Management	*‡				*			*			*	*		*	*					*				*	*	*		
184	Book Editing & Design					*																							
185	Broadcasting, Radio	*			*					*			*		*	*													
186	Broadcasting, Radio & Television	*‡				*	*	*						*			*									*			
187	Broadcasting, Television	*			*					*					*	*													
188	Communication Arts / Organizational					*								*															
189	Communications	Δ																								*			

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190 Film Production: Cinematography					•		•					•																
191 Graphic Communications				•																								
192 Human Relations																•										•		
193 Journalism, Photo														•														
194 Journalism, Print / Broadcast / General	±•		•	•	•	•		•	•			•	•	•	•	•				•					•			
195 Media Arts: Media Arts Writing																									○			
196 Nature Interpreter												•																
197 Photographic Arts / Merchandising												•													•			
198 Photographic Laboratory Operator: Technician												•																
199 Photography	±•						•		•			•													•			
200 Public Relations, Creative & / or Business	•		±•		•			•				•												•				
201 Radio & Television Writing					•																				•			
202 Telecommunications Management																									•			
203 Writer, Technical	•																											
204 Community Services																												
205 Activation Co-ordinator										•																		
206 Applied Social Researcher																									•			
207 Arena: Ski Area Management												•																
208 Behavioural Science: Mental Health Worker					•				•												•							
209 Child & Youth Worker	±•		±•		•		•		•	•		•			•		±•			•	•		±•	•				
210 Coaching Tques																									•			
211 Communicative Disorders Assistant (Post-Basic)											•																	
212 Correctional Worker: Community Worker	±•		±•		•					•		•								•				•	•	•		
213 Counsellor: Employment																										•		
214 Counsellor: Special Care: Residential: Rehab: Workshop Rehab					•							•																
215 Developmental Services Worker	±•		±•		•		•		•		•	•		•		•	±•			•		•		•				
216 Early Childhood Education: Day Care Worker	±•	•	±•	•	•	•	•	•	•	•	•	•	•	•	•	±•	±•			•	•			•	•	•	•	
217 Early Childhood Education for the Developmentally Handicapped												•														○		
218 Early Childhood Education: Resource Teacher (Post-Basic)	•				•	•				•	•	•	•			•				•	•				•			
219 Firefighter: Emergency Duties & Rescue																									•			
220 Fitness Instructor									•	•																		
221 Human Services Counsellor: Management					•					•																•		
222 Human Services: Family Worker (Post-Basic)										•																		
223 Indian Economic Development							•																					
224 Infant / Toddler Care & Education Tques (Post-Basic)									○				•											•				
225 Law & Security Administration[3]	±•		±•	•		•	•	•	•		•	•	•	•	•	•				•				•	•		•	
226 Municipal Planning & Development Tn															•													
227 Native Child & Family Worker: Community Care			•				•								•									•				
228 Nursery Aide / Family Day Care										•			•															
229 Ontario Native Education (Alcoholism & Drug Abuse Worker)																	•											
230 Ontario Native Education (Recreation Leadership Trg)																	•											
231 Ontario Native Education (Social Service Worker: Business Admin)											•						•											
232 Outdoor Recreation Tn: Golf Course Tn												○												•				
233 Parks Operation & Services													•											•				
234 Piano Tn										•																		
235 Protective Security	•																											
236 Recreation: Facilities Management: Administration: Leadership	±•		•	•	•	•	•		•			•		•	•									•		•		
237 Recreation for Special Populations (Post-Basic)											•																	
238 Recreation Older Adults	•																							•				

3. There are a number of specializations within the program, such as customs, correctional services, police education, and loss prevention management. Students should contact colleges for information regarding options.

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239 Security Systems Implementation & Design							•																					
240 Sign Language Interpreter / Communicator																				•						•		
241 Social Services Worker	‡•	•	‡•	•	•	•	•		•			•	•	•	•	•	‡•								•	•	•	
242 Sports Administration								•																				
243 Sports Equipment Specialist												•																
244 Working With Families (Post-Basic)										•																		
245 Food, Hospitality & Tourism																												
246 Baking Techniques	•									•			ⓒ															
247 Convention Management					•																							
248 Cook	‡•		‡•									•												•			•	
249 Flight Services																												
250 Food Service Mgt / Supervision / Culinary Mgt / Beverages Chef (Pre-Emp)				•	•	•	•	•		•	•	•			•	•		‡•		•				•		•	•	
251 Home Economics / Management / Dietary Services					•																							
252 Hospitality Administration & Services / Travel	‡•				•						•		•													•		
253 Hotel / Motel / Restaurant Management, Operation	‡•		‡•	‡•	•		•		•	•	•	•		•		•		‡•				•		•		•		
254 Retail Meat Cutting	•									•																		
255 Tourism Marketing / Management					•						•													•				
256 Tourism / Travel / Transportation	‡•				•		•		•			•		•	•	‡•				•				•	•	•	•	
257 Health (Allied)																												
258 Ambulance & Emergency Care	‡•		‡•		•	•			•		•	•				•		•		•				•				
259 Animal Health / Care																				•	•				•	•		
260 Chiropody										•																		
261 Community & Health Services (Multidiscipline, Post-Basic)[4]	•		•					•	•	•	•	•			•									•			
262 Dental Assistant / Hygienist	‡•		‡•	•			•	•	•	•	•					•				•				•				
263 Dental Ty / Denture Therapy										•																		
264 Funeral Services[5]												•																
265 Gerontology, Post-Basic	•		•			•	•	•	•		•	•	•	•	•	•	•	•		•	‡•	‡•	‡•	•	•	•		
266 Health Care Administration									•																			
267 Health Records Tn / Administration	•								•	•						•												
268 Health Sciences (Preparatory)									•	•																		
269 Medical Laboratory Ty[6]	‡•		•	•					•				•		•					•	•							
270 Medical Transcriptionist/Health Records																•												
271 Non-Registered Nurse (Upgrading)	•				•		•		•	•					•					•								
272 Nursing Assistant	‡•		‡•	•	•	•		•			•	•	•	•		•	‡•	•		•	•	•		•		•	•	
273 Nursing Assistant – Post-RNA[7]	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	
274 Nursing Assistant – Refresher	‡•			‡•			•	•	•						•					•	•	•	•	•	•			
275 Nursing (Diploma)[6]	‡•	•	‡•	‡•	•	•	•	•	•	•	•	•	•	•	•	•	‡•	•		•	•	•	‡•	•	•	•	•	
276 Nursing for Registered Nursing Assistants	‡•	•																										
277 Nursing (Post-RN:Clinical Specialties)	‡•		•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	•	•		•	•	•		
278 Nursing – Refresher (RN)	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	•	•	•		•	•	•	
279 Ophthalmic Assistant					•																							
280 Opthalmic Dispenser											•														•			
281 Orthotic-Prosthetic Tn / Clinician (Post-Basic)										•																		
282 Pharmacy Assistant	•											•								•								
283 Radiography (Medical) Ty			‡•				•		•						•													
284 Respiratory Therapy	•								•																			
285 Sports Injury Management																									•			
286 Instructional Resource Services																												
287 Audio-Visual / Instruction Materials / Equipment Tn			•						•			•												•				

4. Various programs in clinical specialities are offered.
5. An internship of 15 months is required.
6. Program is offered in first year only at Durham College.
7. Courses in various specializations are offered.
8. Program length varies from 6 to 7 semesters.

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288	Educational Assistant																									•	•		
289	Educational Resources & Special Needs																•												
290	Library Tn	‡•								•		•				•	•								•	•			
291	Teacher's Aide							•																					
292	**Technology / Technician Programs**																												
293	Air-conditioning & Refrigeration Eng Tn									•	•		•	•							•								
294	Air-conditioning & Refrigeration Eng Ty										•																		
295	Aquaculture Tn																												•
296	Architectural (Building) Tn					•																							
297	Architectural (Design) Tn					•		•					•																
298	Architectural (Design) Ty					•		•					•													•			
299	Architectural (Drafting) Tn					•					•							‡•	‡•						•	•			
300	Architectural (Drafting) Ty																	‡•	‡•						•				
301	Architectural (Mechanical Systems) Tn	•																											
302	Architectural (Restoration & Rehabilitation) Tn	•																											
303	Architectural Tn	‡•				•				•	•				•	•		‡•	‡•						•				
304	Architectural Ty	‡•				•				•	•				•	•		‡•	‡•		•				•				
305	Aviation (Air Carrier Management Operations) Ty											•																	
306	Aviation (Air Traffic Services) Ty											•																	
307	Aviation (Aircraft Maintenance) Tn				•	•		•																					
308	Aviation (Airport Management Operations) Ty											•																	
309	Aviation (Avionics Maintenance) Tn				•	•																							
310	Aviation (Flight Instructor Training) Tques																									•			
311	Aviation (Flight Management) Tn							•																					
312	Aviation (Flight) Ty							•																	•	•			
313	Aviation (Manufacturing) Tn							•																					
314	Aviation (Manufacturing) Ty							•																					
315	Aviation Pilot (Rotary Wing) Tques				•																								
316	Aviation (Transportation & Industry) Eng Ty								•																				
317	Biological (Chemical) Tn					•																				•			
318	Biological (Industrial Microbiology) Tn					•																							
319	Biological (Microbiology / Electron Microscopy) Ty					•																				•			
320	Biological (Research) Ty																									•			
321	Biological (Sciences) Ty				•	•																							
322	Building Operation Management Ty			•																									
323	Cartographic (General) Tn	•																											•
324	Cartographic (Photogrammetric) Tn	•																											
325	Cartographic Tn	•																								•			•
326	Cartographic Ty	•																											•
327	Chemical (Biochemical) Tn					•																							
328	Chemical (Biochemical) Ty	‡•				•																							
329	Chemical (Bioengineering) Ty	•																											
330	Chemical Eng Tn			•		•								•	•														
331	Chemical Eng Ty	•		‡•		•			•				•	•	•	•					•						•		
332	Chemical (Environmental) Eng Ty			•		•															•								
333	Chemical (Food & Drug) Ty					•			•																				
334	Chemical (Industrial) Eng Tn					•																							
335	Chemical (Industrial) Eng Ty					•							•																
336	Chemical (Industrial Hygiene) Eng Ty													•															

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337	Chemical (Laboratory) Tn					•							•																
338	Chemical (Materials Science) Eng Ty			•																									
339	Chemical (Microbiology) Ty					•							•																
340	Chemical (Pharmaceutical) Ty					•																				•			
341	Chemical (Polymer) Eng Tn					•																							
342	Chemical (Polymer) Eng Ty					•																							
343	Chemical Tn					•								•		•													
344	Chemical Ty	•				•			•					•												•			
345	Chemical (Waste Management) Eng Ty			•																									
346	Civil (Bldg Construction) Tn					•																			•				
347	Civil (Construction) Eng Tn				•	•										•									•				
348	Civil (Drafting) Eng Tn					•																							
349	Civil Eng Tn			•‡		•			•		•	•	•		•	•			•‡						•	•	•		
350	Civil Eng Ty			•		•	•	•	•	•	•	•	•		•	•			•‡		•	•			•	•	•		
351	Civil (Marine) Eng Ty																									•			
352	Civil (Municipal) Eng Ty					•						•																	
353	Civil (Public Works) Eng Tn					•																							
354	Civil (Public Works) Eng Ty					•																							
355	Civil (Resources) Eng Ty											•																	
356	Civil (Transportation) Eng Tn					•																							
357	Civil (Transportation) Eng Ty					•																							
358	Computer (Computing Science) Ty	•‡				•													•‡										
359	Computer (Data Processing) Tn															•													
360	Computer Eng Tn								•										•‡					•	•				
361	Computer Eng Ty	•				•			•				•				•		•‡			•			•	•			
362	Computer (Micro) Eng Ty																					•		•					
363	Computer (Micro) Service Tn																										•	•	
364	Computer (Process Control) Ty				•																								
365	Computer (Science) Ty	•				•													•‡								•		
366	Computer Software Tn																					•							
367	Computer (Systems) Ty					•										•			•‡										
368	Computer-assisted Project Eng Ty																									•			
369	Construction (Carpentry) Tques						•			•																			
370	Construction Eng Tn	•‡						•							•	•					•								
371	Construction Eng Ty	•					•				•						•												
372	Construction (Heavy Equipment) Tn																										•		
373	Construction (Management) Eng Tn										•																		
374	Construction (Management) Eng Ty									•	•																		
375	Construction (Supervisor) Tn									•																			
376	Control (Systems) Eng Tn					•																							
377	Control (Systems) Eng Ty					•				•																			
378	Digital Electronics Eng Tn	•																											
379	Drafting Tn				•						•																		
380	Drafting Tques													•															
381	Electrical (Computer / Control) Eng Ty							•																					
382	Electrical (Electrical Power) Eng Ty											•							•										
383	Electrical Eng Tn							•		•	•	•					•	•‡	•‡				•		•			•	
384	Electrical Eng Tn,Electrical Controls												•															•	
385	Electrical Eng Ty									•	•	•							•‡						•			•	

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386	Electrical Eng Ty,Electrical Control Systems											*				*													
387	Electrical (Machinery & Apparatus) Tn						*																						
388	Electrical (Power) Eng Ty											*					*		*				*						
389	Electromechanical (Drafting) Eng Tn	*																											
390	Electromechanical (Hydraulics) Tn						*																						
391	Electromechanical (Precision Instruments) Eng Tn	*																											
392	Electromechanical (Robotics) Eng Tn				*		*		*				*															*	
393	Electromechanical (Robotics) Eng Ty												*															*	
394	Electronics (Avionics) Eng Tn					*																				*			
395	Electronics (Biomedical) Eng Tn									*																			
396	Electronics (Biomedical) Eng Ty									*																			
397	Electronics (Communications) Eng Tn					*																				*			
398	Electronics (Computer) Eng Tn								*																	*			
399	Electronics (Computer) Eng Ty					*			*							*													
400	Electronics (Computer Systems) Eng Ty					*			*																			*	
401	Electronics (Computer) Tn								*																				
402	Electronics (Electrophotographic Systems) Tn																									*			
403	Electronics Eng (Consumer Electronics) Tn																											*	
404	Electronics Eng Tn	*‡	*	*‡	*	*	*	*	*	*	*	*	*		*	*	*	*‡	*‡		*	*		*	*		*	*	*	
405	Electronics Eng Ty	*‡		*‡		*	*		*	*	*	*	*	*	*	*	*		*‡		*	*		*	*	*	*			
406	Electronics (Power & Control) Eng Ty					*																				*				
407	Electronics (Robotics & Process Control) Tn									*																				
408	Electronics (Telecommunications) Eng Tn				*																									
409	Electronics (Telecommunications) Eng Ty																									*				
410	Electronics (Telephone Systems) Eng Tn																											*	
411	Electronics Tn[9]	*																										*	
412	Energy Systems / Conversion Eng Ty															*													
413	Environmental Engineering Ty													⊙															
414	Environmental Science Tn				*																				*				
415	Environmental Science Ty				*																				*				
416	Environmental Systems (Energy Management) Eng Ty												*																
417	Environmental Technology																								*				
418	Fibre / Plastics Composites Eng Ty					*																							
419	Fire (Protection) Tn	*																								*			
420	Fire (Protection) Ty																									*			
421	Fish & Wildlife Tn																												*
422	Fluid Power Eng Tn					*																							
423	Fluid Power (Robotics) Eng Ty					*																							
424	Food (Drug) Ty								*																				
425	Food Industry Tn												*																
426	Food (Service Management) Tn																				*								
427	Forestry (Fish & Wildlife) Ty																								*				*
428	Forestry (Parks & Recreation) Ty																								*				*
429	Forestry(Recreation) Tn																												*
430	Forestry Tn		*‡																						*				*
431	Forestry Ty																												*
432	Furniture (Production & Design) Tn										*										*								
433	Furniture (Renovation / Production) Tn																				*								
434	Geographical (Information Systems) Tn																												*

9. Program is 55 weeks; program is non-semestered.

Legend

- • Program is offered at the college indicated. Call the college for details.
- ■ Program is also offered in French.
- ⁂ Program is bilingual.
- ○ Program is possible.
- △ Program is offered in French only.

Tn Technician

Tques Techniques

Ty Technology

	Algonquin (Ottawa)	Algonquin (Pembroke)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	Northern (Kirkland Lake)	Northern (Haileybury)	St. Clair (Windsor)	St. Lawrence (Kingston)	St. Lawrence (Brockville)	St. Lawrence (Cornwall)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)	Sir Sandford Fleming (Lindsay)
435 Geological Eng Ty			•																									
436 Geological (Geophysics) Eng Tn			•																									
437 Geological (Geotechnics, Minerals, Terrain) Tn																												
438 Geoscience (Data) Eng Tn																								•				•
439 Geotechnical Ty																												•
440 Graphics (Printing) Tn	⁂																											•
441 Graphics (Printing) Ty	⁂					•				•														•				
442 Heavy Equipment (Heavy Equipment Specialist) Tn										•														•				
443 Heritage Carpentry & Millwork	•																											•
444 Horticultural Tn	⁂																											
445 Industrial Eng Tn: Production, Quality Control											•				•	•				•								
446 Industrial Eng Ty	•				•			•							•	•												
447 Industrial Hygiene Ty													•															
448 Industrial (Laboratory) Ty																												
449 Industrial (Management) Eng Ty											•				•													
450 Instrumentation Eng Tn					•		•					•	•											•				
451 Instrumentation (Industrial) Eng Tn				•	•					•		•	•		•						•							
452 Instrumentation (Industrial) Eng Ty			•							•		•	•								•							
453 Instrumentation (Process Control) Eng Tn					•							•	•									•						
454 Instrumentation (Process, Measurement & Control) Eng Tn	•				•							•	•					•					•					
455 Landscape Tn	•										•								•									
456 Landscape Ty	⁂										•																	
457 Manufacturing Eng Tn									•		•																	
458 Manufacturing Eng Ty	•				•	•			•		•				•									•				
459 Manufacturing (Numerical Control) Eng Tn																								•				
460 Manufacturing (Wood Products) Tn					•																			•				
461 Marina (Recreation) Ty										•																		
462 Marine Eng Ty										•																		
463 Marine (Navigation) Ty										•												•						
464 Mechanical (Applied Machine Shop) Tques																												
465 Mechanical (Automated Manufacturing) Eng Ty						•																	•					
466 Mechanical (Automated Manufacturing) Tn							•																					
467 Mechanical (Computer-assisted Design, Manufacturing) Eng Ty	⁂				•	•	•																					
468 Mechanical (Computer-assisted Manufacturing) Eng Ty	⁂				•	•	•						•															
469 Mechanical (Design & Drafting) Eng Ty																												
470 Mechanical (Design) Eng Tn					•	•		•																	•			
471 Mechanical Drafting (Design) Eng Tn									•		•																	
472 Mechanical (Drafting) Eng Tn						•			•	•		•											•					
473 Mechanical (Energy Management) Eng Ty																												
474 Mechanical Eng Tn	⁂				•		•	•				•	•	•			•		•		•			•	•	•		
475 Mechanical Eng Ty	⁂				•			•		•		•		•	•		•						•	•	•			
476 Mechanical (Fluid Power Automation) Eng Tn					•									•														
477 Mechanical (Hydraulic & Pneumatic) Eng Tn					•																							
478 Mechanical (Industrial) Eng Tn					•					•		•				•												
479 Mechanical (Industrial) Eng Ty					•																			•				
480 Mechanical (Machine Shop Operations) Tn				•	•																							
481 Mechanical (Mine Maintenance) Eng Tn																		•						•				
482 Mechanical (Mine Maintenance) Eng Ty																		•										
483 Mechanical (Mobile Equipment) Eng Ty								•																				

Legend

- * Program is offered at the college indicated Call the college for details
- ‡ Program is also offered in French
- ‡ Program is bilingual
- ○ Program is possible
- Δ Program is offered in French only

Tn Technician

Tques Techniques

Ty Technology

		Algonquin (Ottawa)	Algonquin (Pembroke)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	Northern (Kirkland Lake)	Northern (Haileybury)	St Clair (Windsor)	St Lawrence (Kingston)	St Lawrence (Brockville)	St Lawrence (Cornwall)	Sault (Sault Ste Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)	Sir Sandford Fleming (Lindsay)
484	Mechanical (Nuclear) Eng Ty																								*				
485	Mechanical (Numerical Control) Eng Tn				*		*						*																
486	Mechanical (Tool & Die) Eng Tn					*					*		*															*	
487	Mechanical (Tool Design) Eng Ty										*																		
488	Mechanical (Toolmaking) Eng Tn	*									*																		
489	Metallurgical Eng Tn			*						*																			
490	Metallurgical Eng Ty			*												*													
491	Minerals Eng Ty																												*
492	Mining Eng Tn			*																*									
493	Mining Eng Ty			*																*									
494	Motive Power (Automotive) Tn					*				*											*								
495	Motive Power (Diesel) Tn					*				*															*				
496	Motive Power (Parts Merchandising) Tques									*																			
497	Motive Power (Service Management) Tn					*																							
498	Motive Power Tn					*																							
499	Natural Resources (Law Enforcement) Ty																												*
500	Packaging Management & Ty															*													
501	Environmental Pest Management																												*
502	Piano Tn										*																		
503	Power Eng Tn													*							*								
504	Quality Eng Tn																										*		
505	Quality Eng Ty												*														*		
506	Resources (Drilling) Tn																												*
507	Resources Eng Tn																								*				
508	Resources Eng Ty																								*				
509	Resources (Environmental) Tn														*														
510	Resources (Marine) Eng Ty																								*				
511	Resources (Terrain / Water) Tn																												*
512	Safety Eng Ty												*																
513	Science (Laboratory – Air / Water) Ty									*																			
514	Science (Laboratory) Tn																										*		
515	Science (Laboratory) Ty									*																			
516	Science (Photographic) Tn	‡*																											
517	Science (Pulp & Paper) Eng Ty																							*					
518	Small Craft & Marina Tn												*																
519	Small Craft & Marina Ty												*																
520	Solar Energy Ty												*																
521	Stationary (Power) Eng Ty			*																									
522	Stationary (Power / Plant) Eng Tn									*	*						*												
523	Survey (Aerial) Tn												*																
524	Survey (Hydrographic) Ty												*																
525	Survey & Mapping Ty	*																											
526	Survey Tn	*						*		*		*	*		*			○‡											
527	Survey Ty	*											*					○‡											
528	Textile Management Ty															*													
529	Tooling (Plastic) Tn																				*								
530	Tooling (Toolmaker) Tn					*															*								
531	Transportation (Planning) Ty															*													
532	Tree Maintenance (Urban) Tn												*																

Legend

* : Program is offered at the college indicated. Call the college for details.

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ǂ : Program is bilingual.

⊙ : Program is possible.

A : Program is offered in French only.

Tn : Technician.

Tques: Techniques.

Ty : Technology.

	Algonquin (Ottawa)	Algonquin (Pembroke)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	Northern (Kirkland Lake)	Northern (Haileybury)	St. Clair (Windsor)	St. Lawrence (Kingston)	St. Lawrence (Brockville)	St. Lawrence (Cornwall)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)	Sir Sandford Fleming (Lindsay)
533 Underwater Skills Tques																												
534 Welding Eng Tn						*				*								‡ǂ										
535 Welding Eng Ty																												
536 Welding (Fabrication) Tn		*				*																						
537 Welding Specialist Eng Tques										*																		
538 Yachting Studies Ty												*																

Certificate Programs†

French-language programs currently offered at Algonquin and St. Lawrence colleges will be transferred to La Cité collégiale (see page 39).

	weeks max.	Algonquin (Ottawa)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Toronto)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St. Clair (Windsor)	St. Lawrence (Kingston)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
539 Academic Improvement																							
540 Basic Training for Skill Development (BTSD) – Level I	36	‡*	‡*	*			*	*		*	*	*		*	*			*	*	*		*	*
541 Basic Training for Skill Development (BTSD) – Level II	24	‡*	‡*	*		*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
542 Basic Training for Skill Development (BTSD) – Level III	32	‡*	‡*	*	*	*	*	*	*	*	*	*	*	*	‡*	*		*	*	*	*	*	*
543 Basic Training for Skill Development (BTSD) – Level IV	32	‡*	‡*	*	*	*	*	*	*	*	*	*	*	*	‡*	*		*	*	*	*	*	*
544 English as a Second Language	24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
545 English as a Second Language (Advanced)	16		*					*	*			*				*		*	*	*			*
546 English for Science & High Technology	12									*													
547 French as a Second Language	24	*	*																*	*			
548 Preparation for Certificate of Qualification	10				*										*								
549 Artistic, Literary, Performing Arts & Related																							
550 Commercial Art / Graphic Computer Typesetting	40									*					*								
551 Cosmetic Retailing	17				*																		
552 Floral Design (Basic)	16		*																				
553 Retail Florist	36		*																		*		
554 Screen Process Printing	40	‡*			*					*													
555 Sign Writing	40									*													
556 Business & Clerical																							
557 Accountancy Assistant	40		‡*	*					*		*		*								*	*	
558 Accounting Clerk (Microcomputer)	32		‡*																		*	*	
559 Automated Office Skills	40			‡*				*		*			*	*							*		
560 Bookkeeper-Typist (Bookkeeping Clerk)	35	*	‡*	*				*			*						‡*				*	*	
561 Business Fundamentals	52		‡*	*																*	*	*	
562 Business Machines & Bookkeeping / Business & Commerce	40		*																	*			
563 Clerk-Typist	40	*	‡*	*	*			*			⊙		*								*	*	
564 Commercial Clerical	40		‡*		*																		
565 Commercial (Refresher)	20	‡*	‡*	*	*				*		⊙		*		*					*	*	*	*
566 Computer Literacy: Business & Industry	15					*												*	*				
567 Computer Operator	22	‡*																					
568 Computer Programmer (Numerical Control)	10																				*		
569 Computer-assisted Design Operator	10									*											*	*	

†Certificate programs are of 52 weeks' duration or less. Graduates of certain 52-week programs receive diplomas. Call the college for details.

Legend

- * : Program is offered at the college indicated. Call the college for details.
- ♯ : Program is also offered in French.
- ♯* : Program is bilingual.
- ⊙ : Program is possible.
- A : Program is offered in French only.
- Tn : Technician.
- Tques : Techniques.
- Ty : Technology.

		weeks max.	Algonquin (Ottawa)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St. Clair (Windsor)	St. Lawrence (Kingston)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
570	Data Entry Operator	24		*♯																				
571	Hotel Front Office & Reception	12	*♯*								*													
572	Integrated Office Systems	34																					*	
573	Inventory Control, Auto Parts / Production Planning	24		*	*	*										*					*			
574	Legal Secretary	52				*		*														*		
575	Medical Secretary	52				*		*																
576	Microcomputer: Business Applications	50		*					*				*		*	*							*	
577	Microcomputer Operator	24	*								*					*					*		*	
578	Office Information Administration	52				*													*					
579	Office Procedures / Retail Sales	34																			*			
580	Office Systems Operations	32					*			*		*	♯*		*	*				*	*	*		
581	Receptionist-Typist	40			*	*					*	⊙										*	*	
582	Secretary – Machine Transcription (Dicta-Typist)	35	*	*		*						⊙		*				*			*	*	*	
583	Secretary – Shorthand (Stenographer, General)	40	*	♯*	♯*	*						⊙						*			*	*		
584	Small Business Management	32	*			*		*					*			*								
585	Stenographer	40	♯*																					
586	Systems Analyst (Junior)	30									*													
587	Teller / Cashier	12		♯*																		⊙	⊙	
588	Travel Counsellor	32	♯*	*																				
589	Typing (Refresher)	12	*	*				*										*			*	*	*	*
590	Word Processing	30	♯*	♯*		*				*		⊙		*		*		⊙		♯*	*	*	*	*
591	**Community Services & Related**																							
592	Community Improver: Leather & Beadwork	36																			*			
593	Family Care Worker	26																				*	*	
594	Home Day Care	23	*				*													*				
595	Home Support (Visiting Homemaker)	12	*		*		*		*		*	*		*	*	*	*		*	*	*		*	
596	Nanny	16		*			*										*							
597	Native Teaching for Natives	3																			*			
598	Redirection Through Education	26			*						*											*	⊙	
599	Support Worker for the Physically Disabled	8																	*					
600	**Construction Trades**																							
601	Back-Hoe Operator	4																					*	
602	Bricklaying	20							*	*														
603	Bricklaying (Preapprenticeship)	48			*																			
604	Cabinetmaking (Basic Fundamentals)	48	*	*	*			*	*	*		*	*		*	*					*			
605	Carpenter, Basic	20			*		*	*	*			*								*	*			
606	Carpenter, General	40	*	*	*		*			*	*	*		*		*	*	♯*		*	*			
607	Construction Trades Helper	16							*			⊙		⊙		*		*		*				
608	Decompression (Hyperbaric) Chamber Operator	1																				⊙		
609	Dry-Wall (Taper & Boarder)	8							*			⊙		*							*			
610	Environmental Horticulture I & II[10]	20 / 20		*					*											*	*	⊙	*	
611	Heating, Refrigeration & Air-conditioning	48	*	*												*			*					
612	Industrial Assembler	3																		*	*			
613	Industrial Electronics for Journeymen	13														*		*						
614	Industrial Maintenance Mechanic: Packaging / Assembly / Repair / Controls / Millwright	48		*					*	*		*	*	*	*	*		*	*		*	*	*	
615	Masonry	20		*			*		*		*	*		⊙						*				
616	Natural Gas Servicer / Gas Fitter	26		*	*						*													
617	Oil Burner Service	20		*	*																			
618	Painting & Decorating	16							*			⊙		⊙										

10. Only Part I is possible at Seneca College.

Legend

- * : Program is offered at the college indicated. Call the college for details.
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- ‡* : Program is bilingual.
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- Tques: Techniques.
- Ty : Technology.

		weeks max.	Algonquin (Ottawa)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St Clair (Windsor)	St Lawrence (Kingston)	Sault (Sault Ste Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
619	Pipeline Welding	8		⊙																				
620	Plastic Floor Covering Installer	10			*				*												*			
621	Refrigeration & Air-conditioning	34	*	*						*	*													
622	Residential Building Renovation Helper	20																			*			
623	Residential Construction Co-ordinator	36																				*		
624	Residential Siding Installer	8												*										
625	Underwater Skills	34																				*		
626	**Disabled**																							
627	Head Start for the Hearing Impaired	20	*								*													
628	Training for the Handicapped Adult	40		*							*	⊙	*			*								
629	**Farming, Agriculture, Horticulture, Animal Care, Fishing, Floriculture**																							
630	Dairy Herd Worker	39								*														
631	Farm Equipment Mechanic (Pre-Employment)	40								*														
632	Farrier	15																				*		
633	Forest Nursery Worker	12																						
634	Lumber Grader (Hardwood)	16																			*		*	*
635	Management of Farm Business	20			*							*												*
636	Tree Maintenance (Urban)	16											*											
637	Urban Arboriculture	32											*											*
638	**Health (Allied)**																							
639	Health Care Aide	16	⊙	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
640	Sign Language Studies	21																	*					
641	Training Programs for Students With Learning Disabilities	52													*									
642	**Machining & Related**																							
643	Business Equipment Servicing	48	*																					
644	Fabricating & Welding (Metal)	48		*					*							*				*	*			
645	Forestry Filer	40																*						
646	Forestry Millwright	48																‡*						
647	Industrial Mechanic / Millwright	40		*				*	*	*		*							*	*			*	
648	Industrial Mechanic / Millwright (Advanced)	8																		*				
649	Machine Shop	40	*	*	*	*			*		*	*	*	*		*	*		*	*	*	*	*	*
650	Machine-Tool Setter Operator[11]	48					*																	
651	Machinist, General / Automatic	40								*		*	*				*		*	*			*	
652	Machinist – Industrial Craftsperson	32								*														
653	Millwright (Refresher)	8		*																				
654	Mould Making	48							*	*	*								*					
655	Numerical Control – Machine-Tool Programmer	10							*							*				*			*	
656	Numerical Control – Machine-Tool Setter Operator	40					*		*												*		*	
657	Numerical Control Machining	40		*			*					*					*							
658	Photocopier Maintenance & Repair	48																				*		
659	Tool & Die Making	40							*	*		*				*							*	
660	Welding Fitter	40	*	*	*		*	*	*	*	*	*	*	*		*		*		*	*		*	*
661	Welding Fitter (Refresher)	20		*							*		*	*		*					*		*	
662	Welding, High-Pressure Pipe (Upgrading / Refresher / Advanced)	10						*			*		*								*			
663	Welding, Layout Fitting	48																			*			
664	Welding Operator	20		*					*	*	*	⊙		*		*				*	*		*	
665	**Managerial, Administrative & Related**																							
666	Native Economic Development & Small Business	52																						*
667	Ontario Native Education (Indian Band Management) I, II, III & IV[12]	12						*						*		*					*			

11. Six separate courses include: Engine and Turret Lathes, Milling and Grinding Machines, Horizontal and Vertical Boring Machines.

12. Only Part IV is available at Confederation College, Mohawk College, and Sault College.

Legend

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Tn : Technician.
Tques : Techniques.
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		weeks max.	Algonquin (Ottawa)	Cambrian (Sudbury)	Canadore (North Bay)	Centennial (Scarborough)	Conestoga (Kitchener)	Confederation (Thunder Bay)	Durham (Oshawa)	Fanshawe (London)	George Brown (Toronto)	Georgian (Barrie)	Humber (Toronto)	Lambton (Sarnia)	Loyalist (Belleville)	Mohawk (Hamilton)	Niagara (Welland)	Northern (South Porcupine)	St. Clair (Windsor)	St. Lawrence (Kingston)	Sault (Sault Ste. Marie)	Seneca (Toronto)	Sheridan (Oakville)	Sir Sandford Fleming (Peterborough)
668	Self-Employment Skills	20										*												
669	Small Business Management	36	*		*	*										⊙		*	⊙		*	*		
670	**Material Handling & Related**																							
671	Heavy Equipment Operator (Multiple Machines)	15			*									*									*	
672	Loader Bulldozer Operator	4																					*	
673	Sideboom Operator	5																					*	
674	Tower & Mobile Crane Operator	8																					⊙	
675	**Mining & Quarrying**																							
676	Diamond Drill Operator (Surface & Underground)	20																=*						
677	Drilling & Blasting	13																						*
678	Mining Assistant	34																*						
679	**Natural Sciences, Engineering & Mathematics**																							
680	Blueprint Reading: Aircraft	4																				*		
681	Blueprint Reading: Construction / Mechanical	8		*	*											*							*	
682	Computer Programmer (Numerical Control)	10																				*		
683	Computer Software	52																		*				
684	Computer-assisted Project Eng	18																				*		
685	Drafting	40		*					*		*					*				*		*		
686	Drafting, Mechanical / Electrical	40						*																
687	Drafting, Mechanical Engineering	52									*													
688	Drafting, Process Piping	40		*										*		*				*				
689	Drafting (Refresher)	20																					*	
690	Electronic Data Processing I, II & III	8				*																		
691	Introduction to Computer-assisted Drafting & Design	10									*												*	
692	Numerical Control Machine Programmer	52		*	*								*			*								
693	Quality Control	40					*									*								
694	**Processing**																							
695	Baking Tques	40	*		*					*	*													
696	Butcher & Meat Cutter	24	*		*																			
697	Forestry Cutters & Skidders	8																=*						
698	Forestry, Mechanical Harvesting	15																=*						
699	Forestry Sawyer & Millwright	48																*					⊙	
700	Logging & Small Sawmill Operator	24			*																		*	
701	Process Operations	32												*		*								
702	Process Operations, Steel-related Industries	32														*								
703	Retail Meat Cutting	20	*		*						*													
704	**Product Fabricating, Assembling & Repairing**																							
705	Aircraft Maintenance Tn	52				*																		
706	Apparel Design & Pattern Drafting	32									*													
707	Appliance Servicing	40		*			*				*			*										
708	Automotive Body Repairer	20			*																			
709	Avionics	52				*																		
710	Business Equipment Servicing	48	*								*													
711	Camera Repair Mechanic	40			*																			
712	Computer-assisted Design / Manufacturing Tques	10						*								*								
713	Courseware Design & Production	34																				*		
714	Diesel Electric Mechanic	40				*																		
715	Diesel Engine Mechanic	20				*																		
716	Electrical Instrumentation Mechanic	40																	⊙					

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717	Electromechanical (Maintenance) Tn	52																						
718	Electronic Assembly & Repair	21														*				*				
719	Electronic Systems Tester	52	*																					
720	Electronics, Automated Office Systems Servicing	52									*													
721	Electronics, Basic	36							*															
722	Electronics, Basic Skill	36						*			*													
723	Electronics, Cable Service & Maintenance	48																				*		
724	Electronics, Digital Equipment & Systems	48			⊙				*		*		*							*		*		
725	Electronics, Equipment Assembly	16																		*			*	
726	Electronics, General Servicing	48						*	*	*														
727	Electronics, Industrial Control	48									*						*							
728	Electronics, Manufacturing Assembly	48	*																					
729	Electronics, Mobile Radio	48							*				*									*		
730	Electronics, Radio / Hi-Fi / Television Servicing	48							*				*									*		
731	Fitter, Structural Steel Plate Work (Preapprenticeship)	40		*															*					
732	Fluid Power Control Mechanic	40			*	*																		
733	Fork Lift Vehicle Mechanic	40				*			*															
734	Fundamentals of Robot Maintenance & Repair	28							*							*								
735	Furniture Upholstery & Repair	40								*	*													
736	Furniture, Woodworking & Finishing	32								*	*													
737	Heating / Tn / Services	52	*		*					*	*													
738	Heavy Duty Equipment Mechanic	40		‡*	*	*		*		*							‡*			*				
739	Heavy Equipment Field Servicing	12																					*	
740	Industrial Electrician	45							*	*													⊙	
741	Industrial Electronic Controls – Journeyman	13									*									*				
742	Industrial Instrumentation	40		*				*			*			*		*				*				
743	Industrial Maintenance Mechanic	48		‡*			*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	
744	Industrial Power Sewing	8									*													
745	Industrial Power Sewing Machine Mechanic	40									*													
746	Instrumentation for Plumbers & Steamfitters	20																		*				
747	Marine Mechanic	40																						*
748	Marine & Small-Powered Equipment Mechanic	40		*	*	*		*				*	*	*						*			*	
749	Marine & Snow Vehicle Maintenance	16				*								*						⊙				
750	Microcomputer Maintenance	40									*									*				
751	Motor Vehicle Mechanic	40				*			*					*										
752	Motor Vehicle Mechanic (Advanced Electronics)	13													*									
753	Motorcycle Repair	32				*														*				
754	Moulding & Set-up Mechanic: Plastics	20									*													
755	Plastics Processing Equipment Mechanic	40									*													
756	Precision Electronic Assembly	24	*												*									
757	Precision Instrument Mechanic	48											*											
758	Precision Metal Fabrication	48	*						*															
759	Sawmill Tn	48			*																			
760	Steel Fitter	20									*													
761	Toolmaking	37										*				*			*					
762	**Sales**																							
763	Automotive Merchandising	34				*									*									
764	Inventory Control	20			*	*														*				
765	Retail Merchandising	16				*														*				

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766	Retail Merchandising (Supervisor)	40				○																		
767	Retail Sales	12	*																					
768	Retailing	36																						*
769	**Service**																							
770	Audio Equipment Systems (Electronics)	48									*													
771	Bartending	15	‡	*							*	*												
772	Building Custodian	14		*																				
773	Building Maintenance	20						*													*			
774	Dining-Room Service	10		*	*						*				○			○			*			
775	Food & Beverage Service	15								*								*						
776	Food Preparation, Advanced	20		‡	*			*	*	*	*	*				*	*	*	*	*	*			
777	Food Preparation, Basic	20	*	‡	*		*	*	*		*	*			○	*	*	○	*		*			
778	Food Service & Bartending	20						*			*	○						*						
779	Hairdressing	16																		*	*			
780	Hairstyling	48																	*	*	*			
781	Hairstyling for Barbers	16																			*			
782	Hospitality: Administration & Food Service	34																*	*	*				
783	Hospitality – Modified Accommodations & Food Service	20		*																	*			
784	Hotel, Front Office & Operation	12	‡								*													
785	Tour Guide Service	16																				*		
786	**Transport Equipment Operating**																							
787	Marine Emergency Duties	3										*												
788	Marine Engineer	28										*												
789	Marine Navigator	28						*				*												
790	School Bus Driver	2		*																				
791	Tractor-Trailer Driver	4		*							*													
792	Truck Driver	3									*												○	
793	**Other Crafts & Equipment Operating**																							
794	Duffle Coat Production	20			*																			
795	Graphic Arts Camera Operator	40														*								
796	Lithography & Screen Printing – Layout & Stripping	40														*								
797	Offset Printing	40			*						*					*								
798	Screen Process Printing	40									*													
799	**Unclassified**																							
800	Basic Employment Training (BET)	26	*	*	*	*	*	*			*	*			○	*		*		*		*	*	
801	Career Planning	8	‡	‡	‡		*	*		*		○	‡					‡		*	*		*	
802	Career Planning for Native People	4						*													*			
803	Entry Into Careers in New Technology	16	*							*					*					*				
804	Focus for Change	16	‡	‡			*	*	*		*	○				*					*		*	
805	Industrial Orientation	9		*						*					*	*				*				
806	Introduction to Non-Traditional Occupations	8	‡	‡	*	*	*	*	*		*	*		*	*			○		*	*	*	*	
807	Job Readiness (BJRT)	12 + 52	‡	‡	*	*	*	*		*	*	○	*	*	*	*		*	*		*	*		
808	Job-Search Skills for Women	3		*		*		*										○			*			
809	Laboratory Tn	40													*									
810	Life Skills / Coach	6	*	*														○		*	*			
811	Ontario Native Education (Industrial Orientation)	9														*								
812	Ontario Native Education (Job Readiness)	20		*							*			*										
813	Orientation to Employment	12						*								*		○			*			
814	People Into Trades & Technology	20		‡		*						*		*	*			*			*		*	

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815	Pre-Trades Training for Women	12	•	•		•					•	ⓞ		ⓞ	•	•		•	•	•	•	•	•	
816	Women Into Trades & Technology	18	•	•	±			•	•	•	•			•	•			•	•	•	•	•			
817	Work Skills & Attitude Training	12				•																			
818	Working Skills for Women	52			•						•											•			

Index

How to Use the Chart of CAAT Programs

To find a subject in the chart:
1. Locate the desired program name in this alphabetical, cross-referenced index.
2. Note the code number which follows the program name.
3. Turn back to the appropriate numerically coded listing in the chart (pages 12 to 29).

For example, "Computer Programmer" and a cross-reference, "*Programmer, Computer*", are listed alphabetically in the index, each with the code number "150". This code number can be found in numerical sequence in the chart on page 15. It will be seen that "Computer Programmer" is offered at twenty of Ontario's colleges of applied arts and technology.

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Ty, Mechanical (Computer-assisted Design / Manufacturing) Eng 467
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Algonquin College of Applied Arts and Technology

Ottawa, Nepean

President: Philip T. Killeen

Enrolment 1988-89

Full-time	8 211
Part-time	63 658

Algonquin College has campuses or centres in Ottawa, Pembroke, Hawkesbury, Renfrew, and Perth, and operates continuing education courses throughout the Ottawa Valley. It has been officially designated as a bilingual college.

The college offers a wide range of programs in eight schools: applied arts, business, health sciences, technology and trades, Lanark County, Prescott-Russell counties, Renfrew County, and continuing education.

Campus locations:

Woodroffe Campus
1385 Woodroffe Ave.
Nepean, Ontario
K2G 1V8
(613)727-9400

Rideau Campus
200 Lees Ave.
Ottawa, Ontario
K1S 0C5
(613)598-3888

Col. By Campus
140 Main St.
Ottawa, Ontario
K1S 1C2
(613)598-4577

School of Renfrew County
315 Pembroke St. E.
Pembroke, Ontario
K8A 3K2
(613)735-4708

School of Prescott-Russell Counties
282 Main St. East
Hawkesbury, Ontario
K6A 1A5
(613)632-4143

School of Lanark County
7 Craig St.
Perth, Ontario
K7H 1X7
(613)267-2859

Ottawa Campus (Colonel By, Rideau, Woodroffe)

• Applied Arts

Three-year diplomas
Child and youth worker, interior design, museum technology.

Additional admission requirements: information session for all; child and youth worker – questionnaire, medical certificate and record of immunization required before undertaking field work; interior design – graphic ability test, test for colour blindness, portfolio showing creative ability; museum technology – questionnaire.

Two-year diplomas
Advertising (creative), animation (television), broadcasting (radio and television), correctional worker, developmental services worker (mental retardation counsellor), early childhood education, general arts and science, graphic design, horticulture and landscaping technician, journalism (print), law and security administration, library technician, public relations, recreation facilities management, recreation leadership, recreation leadership (older adults), social service worker.

Additional admission requirements: information session for all; advertising (creative) – language test, media knowledge test; animation (television) – portfolio; broadcasting – language proficiency test, Canadian quiz test, current events test, thorough knowledge of English and awareness of current events; correctional worker – questionnaire; developmental services worker, early childhood education, social service worker – questionnaire, medical certificate and record of immunization required before undertaking field work; graphic design 6 design test, portfolio; journalism (print) – language test, public affairs test; law and security administration, library technician – questionnaire; public relations – English language test, current affairs test, 30 wpm typing; recreation leadership (older adults) – two-year diploma in recreation or degree in recreology, physical education, or kinesiology or a related discipline, current work in recreation with older adults and a desire to specialize.

One-year certificates
Florist, protective security.

Additional admission requirements: florist – information session; protective security – questionnaire, information session.

• Business

Three-year diplomas
Business administration (options in accounting, finance, general, human resources management, information systems (co-op), marketing, materials and inventory management), office administration (information management).

Additional admission requirements: Grade 12 general level mathematics; business administration – mathematics for technology or equivalent; office administration – mathematics for business or equivalent.

Two-year diplomas
Business (options in accounting, information systems, marketing, retail management), computer programmer, computer programmer (co-op), hotel and restaurant management, legal assistant, office administration (options in executive secretary, executive bilingual secretary, legal secretary, medical secretary), travel counsellor.

Additional admission requirements: business – Grade 12 general level mathematics for business; computer programmer – Grade 12 general level mathematics for technology; hotel and restaurant management – negative reading on a tuberculin skin test within six months before registration; legal assistant, office administration (executive, bilingual, legal) – advanced entry to year 2: 50 wpm typing, 60 wpm shorthand; office administration (medical) – advanced entry to year 2: 50 wpm typing; travel counsellor – Grade 11 or 12 general level geography or history or equivalent.

One-year (or less) certificates or diplomas
Baking techniques (40 wks), bartending (15 wks), business – accounting (52 wks), computer operator (1 yr), cook (apprenticeship), cook training (1 yr), hairstylist (apprenticeship), office administration (general secretary (1 yr), executive secretary (2nd yr), legal secretary (2nd yr), medical secretary (2nd yr)), retail meat cutting (20 wks), small business management (15 wks), word processing operator 1 (16 wks), word processing (co-op) (1 yr).

Additional admission requirements: baking techniques, bartending, cook (apprenticeship), cook training, retail meat cutting – negative reading on a tuberculin skin test within six months before registration; office administration (executive, legal) – advanced entry to year 2 with 50 wpm typing and 60 wpm shorthand; office administration (medical) – advanced entry to year 2 with 50 wpm typing; word processing operator 1 – 30 wpm in a test administered by the college; word processing (co-op) – 40 wpm in a test and typing, formatting, and language skills test administered by the college.

• Health Sciences

Note: Applicants accepted into the School of Health Sciences must submit proof of a recent medical examination and immunization before entering these programs.

Three-year diplomas
Medical laboratory technology, nursing, nursing for registered nursing assistants (part-time and full-time), respiratory therapy.

Additional admission requirements: medical laboratory technology, respiratory therapy – Grade 11 or 12 advanced level mathematics for technology, chemistry, and physics with marks of at least 60%, or at least 75% if studied at the general level, and essay on the role of the techologist, on a form supplied by the college; nursing – two different sciences: Grade 11 or 12 biology, and chemistry or physics, taken at the advanced level, information session, aptitude test, personal history form (applicants with sciences at the general level considered on an individual basis); nursing for registered nursing assistant – current certificate of competence as a registered nursing assistant in Ontario, and all requirements listed above for nursing.

Two-year diploma
Health records administration.

Additional admission requirements: Grade 12 general level mathematics for technology and Grade 11 or 12 general level biology or chemistry or physics or equivalent, aptitude test, information session, essay on a visit toa health records department, basic typing course recommended.

One-year certificates
Ambulance and emergency care, dental assistant, dental hygiene, nursing assistant, pharmacy assistant.

Additional admission requirements: ambulance and emergency care – Grade 11 or 12 general level biology or equivalent, class "F" driver's licence, current basic cardiac life support certificate (CPR – level C); dental assistant – Grade 11 or 12 general level biology and chemistry, information session, aptitude test, qualification in CPR basic rescuer level C and St. John Ambulance first aid, proof of recent tuberculosis screening, medical, immunization, and dental certificates; dental hygiene – registration as certified dental assistant (Ontario), proof of one year's full-time work experience as a chairside dental assistant, information session, selective admission test, proof of recent tuberculosis screening, qualification in CPR basic rescuer level C and St. John Ambulance first aid, medical, immunization, and dental certificates; nursing assistant – Grade 11 or 12 general level biology or chemistry or physics, information session, personal history form; pharmacy assistant – Grade 12 general level mathematics, Grade 11 or 12 general level chemistry, information session, aptitude test, typing course recommended.

• Technology and Trades

Three-year diplomas (technology)
Architectural, chemical (bioengineering), chemical engineering, chemical engineering (biochemical), computer engineering, computer (computing science), construction engineering, electronics engineering (co-op option), industrial engineering, manufacturing engineering, mechanical engineering.

Additional admission requirements: Grade 12 general level mathematics for technology or equivalent.

Three-year diploma
Technical writer.

Additional admission requirements: successful completion of at least three levels of a technician or technology program with at least a "B" grade in report writing; direct entries into fourth or fifth level considered for applicants with three or four levels of a technology program and proven communication skills; candidates with a university degree considered on an individual basis.

Two-year diplomas (technician)
Architectural, architectural (mechanical systems), computer systems, construction engineering, electromechanical engineering (drafting), electronics engineering (co-op), electronics engineering (digital) (co-op), fire protection, graphics (printing), instrumentation engineering (control) (co-op), mechanical engineering (toolmaking), science (photographic), surveying and mapping.

Additional admission requirements: architectural (all), computer systems, construction engineering, instrumentation engineering (industrial) – Grade 12 general level mathematics for technology or equivalent; electromechanical engineering drafting, electonics engineering, fire protection, graphics (printing) – Grade 11 general level mathematics for business or equivalent; mechanical engineering (toolmaking) – Grade 11 general level mathematics for technology or equivalent; science (photographic) – Grade 12 general level mathematics for business, questionnaire; surveying and mapping – Grade 12 general level mathematics for technology or equivalent, stereovision and colourvision acuity test.

Special one-year (52-week) diplomas
Electromechanical engineering technician/drafting, electromechanical engineering technician (precision instruments), electronics engineering technician.

Additional admission requirements: Grade 12 general level mathematics for technology or equivalent.

One-year (or less) certificates
Business equipment servicing (48 wks), cabinet making (basic), electronics manufacturing assembler (48 wks), heating refrigeration and air conditioning, machine shop (40 wks), path into technology (16 wks), precision electronics assembler (24 wks), stationary engineering (4th and 3rd class) (40 wks), welding fitter (40 wks), women into trades and technology (18 wks).

Additional admission requirements: business equipment servicing – Grade 11 general level mathematics for technology, orientation session; cabinet making – reading, mathematics, and dexterity tests; electronics manufacturing assembler, precision electronics assembler – colour vision acuity test, orientation session; path into technology – Grade 11 general level mathematics for technology or equivalent.

Certified trade programs (apprenticeship)
Air conditioning and refrigeration, auto body repairer, carpenter (24 wks), electrician (construction and maintenance), general machinist, glazier and metal mechanic, industrial woodworker, motor vehicle mechanic (24 wks), motor vehicle mechanic (MAP 40), plumber, precision metal fabricator, precision metal fabrication (MAP 40), sheet metal worker.

School of Lanark County

Basic employment training (26 wks), basic training for skill development (levels 2, 3, and 4) (52 wks), carpenter general (40 wks), commercial refresher (8 to 20 wks), electromechanical engineering technician (robotics) (64 wks), electronics equipment systems tester (46 wks), food preparation general (levels 1 and 2) (20 wks), health care aide (16 wks), heritage carpentry, home support (level II) (4 wks), microcomputer operator (24 wks), word processing operator (8 wks).

Additional admission requirements: basic employment training – selection interview and placement testing; basic training for skill development – placement testing; carpenter general – Grade 10 or equivalent, good mathematical and reading skills, interview and test; commercial refresher – previous commercial training and/or office experience, Grade 10 or equivalent, 35 wpm typing, basic training for skill development level 3; electronics equipment systems tester – Grade 10 or equivalent, good mathematical and reading skills, suitable aptitude capabilities and interests, good colour vision; electromechanical engineering technician (robotics) – Grade 12 general level mathematics for technology, demonstrate aptitude capabilities and interests, good colour vision; food preparation (general) – Grade 8 (CEIC sponsored and fee payers), or Grade 10 (apprenticeship), experience working in a kitchen; health care aide – Grade 10 or mature applicant (formal testing may be requested by the college), test in basic academic skills, proof of current good health in the form of a completed standard medical-immunization record, information session; home support (level II) – employment by an agency, association, or department providing visiting homemaker services, written proof of at least 120 hours of satisfactory employment as a visiting homemaker within previous six months, satisfactory health record, ability to read, write, and speak English; microcomputer operator – 30 wpm keyboarding in a test administered by the college, good bookkeeping and language skills, knowlege of acceptable typing formats; word processing operator – 40 wpm keyboarding in a test administered by the college, adequate communication skills.

School of Prescott and Russell Counties

All full-time programs are sponsored by the Canada Employment and Immigration Commission and are offered in French. Most programs and courses are offered in the evening at the Hawkesbury Regional Secondary School. Several programs and courses have been offered on-site, using equipment and facilities of industries and businesses.

Through continuing education the school offers a wide range of courses for credits toward program goals and to satisfy general interest needs at locations throughout Prescott and Russell counties and in Ottawa.

School of Renfrew County

Three-year diploma
Nursing.

Additional admission requirements: Grade 11 or 12 advanced level biology, and Grade 11 or 12 advanced level chemistry or physics (applicants with these courses at the general level will be considered on an

individual basis), information session, personal history form, aptitude test.

Two-year diplomas
Business (general), early childhood education, electronics engineering technician, forestry technician, general arts and science, office administration (executive secretary), social service worker.

Additional admission requirements: early childhood education – questionnaire, orientation session; office administration (executive secretary) – advanced entry to year 2 with 50 wpm typing and 60 wpm shorthand; social service worker – questionnaire, information session.

One-year (or shorter) certificates
Bookkeeper typist, electronics equipment systems tester (46 wks), food preparation general (levels 1 and 2) (20 wks), health care aide (16 wks), home support (level II) (120 hrs), office administration (general secretary), women into trades and technology (18 wks).

Additional admission requirements: bookkeeper typist – Grade 10 or equivalent or basic training for skills development (level 3); electronics equipment systems tester – Grade 10 or equivalent, good mathematical and reading skills, pre-test evaluation, good colour vision; food preparation (general) – Grade 8 or equivalent (CEIC-sponsored and fee-paying students) or Grade 10 (apprenticeship), previous kitchen experience; health care aide – Grade 10 or equivalent or at least 19 years of age, completed standard medical-immunization record showing good health, information session, test in basic academic skills; home support (level II) – written proof of 120 hrs employment by an agency, association, or department as visiting homemaker within previous six months, satisfactory health record, ability to speak, read, and write English.

• Alternative Learning
Continuing education
Algonquin offers over 3 000 credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, consult brochures for details, or contact the School of Continuing Education at (613) 727-7666.

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section and the college calendar for further details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Co-operative education programs
Co-operative education programs offered in English by the School of Business at the Woodroffe Campus, Nepean, are as follows: computer programmer (also offered in French), business administration (information systems, materials and inventory management), and word processing.

Co-operative education programs offered in English by the School of Technology and Trades at the Rideau Campus, Ottawa, and at the Woodroffe Campus, Nepean, are as follows: electronics engineering technician, electronics engineering technician (digital), electronics engineering technology, and instrumentation engineering technician (control systems).

Distance learning
The School of Continuing Education's distance learning program lets students pace themseleves as they see fit to meet assignment deadlines. Students are assigned a tutor to assess their work and assist with their progress. The college provides 36 courses as well as a twelve-course certificate by distance delivery. Many of the 36 courses also form part of other business certificate requirements and the business administration diploma program.

Pre-employment programs
Contact college for information.

CEIC (Manpower) programs
A large number of programs of one year or less duration are offered under the sponsorship of CEIC (Manpower). Contact the Admissions Office for the identification of such programs and application procedures.

Additional Costs
The estimated cost of books, supplies, and instruments for the academic year varies from $200 to $1 500, depending on the type of program. Please consult the individual monographs or phone for more information.

Further Information
For further information on admission requirements , college facilities, and student awards, please contact
Admissions (Liaison), Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606
Toll-free 1-800-267-7061 (Ont., Que., N.B., N.S., P.E.I.)

Registrar, Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7603

Financial Aid Office
Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7678

For further information on CEIC (Manpower) programs offered in Arnprior, Hawkesbury, Ottawa, Pembroke, Perth, or Renfrew, inquire at the local Canada Employment Centre or Algonquin College.

La Cite collegiale
College d'arts appliques et de technologie

Acting President: Andrée Lortie

La Cité collégiale is Ontario's first French-language college of applied arts and technology (CAAT). It is also the newest CAAT.

La Cité collégiale has a mandate to provide postsecondary and adult education in French to residents of the counties of Renfrew, Lanark, Russell, Prescott, Frontenac, Leeds, Grenville, Dundas, Stormont and Glengarry, and the Regional Municipality of Ottawa-Carleton.

The following programs are currently offered by Algonquin and St. Lawrence colleges. These programs will be transferred to La Cité collégiale. It is expected that all these programs will be available at La Cité collégiale in September 1990. A calendar with program information is available from La Cité collégiale.

Diploma Programs – Ottawa
Administration de bureau – secrétariat de direction, administration de la loi et de la sécurité, administration des affaires (options : général, gestion, comptabilité, informatique, marketing), agent de voyage, arts et sciences - programme général (options : communauté et droit, pré-médias, pré-sciences de la santé), assistance juridique, bibliotechnique, commerce (options : comptabilité, informatique, marketing), communication et bureautique, conception graphique, design d'intérieur - avancé, éducation des petits, études en loisirs, gestion alimentaire et hôtelière, horticulture et paysagisme, hygiène dentaire, journalisme écrit, loisirs - concentration troisième âge, programmeur d'ordinateur, publicité, radiotélédiffusion, relations publiques, sciences infirmières, sciences infirmières pour infirmiers et infirmières auxiliaires autorisés, thérapie respiratoire, travail social. **Techniques :** architecture, éducation spécialisée, imprimerie, photographie, systèmes informatiques, services correctionnels, génie de la construction, génie électronique, génie mécanique - fabrication d'outils, services de développement, forestières. **Technologie :** architecture, chimie - biochimie, ordinateurs, génie de la construction, génie électronique, génie mécanique, laboratoire médical.

Diploma programs – Cornwall
Administration de bureau – secrétariat de direction, administration des affaires – gestion, études générales en arts et sciences, commerce, comptabilité, finance, sciences infirmières, travail social – gérontologie, techniques des sciences du comportement.

For Information on Programs
Call toll free 1-800-267-CITÉ (2483).
Local calls: Ottawa 746-CITÉ (2483); Cornwall 938-CITÉ (2483).

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Cambrian College of Applied Arts and Technology

Sudbury

President: Glenn N. Crombie

Enrolment 1988-89

Full-time	3 179
Part-time	21 518

Cambrian College has two campuses in Sudbury: the Main Campus on Barrydowne Road houses business, applied arts, and technology programs and labs, a dental clinic, and lecture halls; the Regent Street Campus, the location of the college residence, offers health science programs (other than dental) and features extensive laboratory facilities. Numerous other sites throughout the districts of Sudbury and Manitoulin accommodate both full programs and individual courses.

Campus locations:

1400 Barrydowne Rd. Sudbury, Ontario P3A 3V8	885 Regent St. S. Sudbury, Ontario P3E 4T2

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas

Child care worker/*techniques d'éducation spécialisée*, music performance, public relations/*relations publiques*,visual arts.

Additional admission requirements: child care worker – first-aid certificate, questionnaire; music – audition to determine musical aptitude.

Two-year diplomas

Advertising, audio-visual technician, college vocational /*programme collégial préparatoire à l'emploi*, correctional worker/*technique de services correctionnels*, developmental services worker/*techniques en services de développement*, early childhood education/*éducation des petits*, general arts and science/*programme général arts et sciences*, journalism, law and security administration/*administration de la loi et de la sécurité*, law clerk/*techniques juridiques*, Native child and family worker, Native community care counselling and development, social services/*services sociaux*, theatre production.

Additional admission requirements: audio-visual technician – two senior credits in mathematics, one senior credit in English; correctional worker, early childhood education, developmental services worker, law and security administration, social services/*services sociaux* – questionnaire, first-aid certificate; law clerk/*techniques juridiques* – questionnaire; college vocational/*programme collégial préparatoire à l'emploi* – *OSSD at the basic level.*

• Business

Three-year diplomas

Accounting/*comptabilité*, business administration/*administration des affaires* (second-year options in general business management, marketing management and personnel administration), fashion merchandising, information systems/*informatique*, marketing, office systems administration, physical fitness and leisure management.

Additional admission requirements: office systems administration – senior math, senior English.

Two-year diplomas

Accounting/*comptabilité, informatique*, marketing, public relations, secretarial/*secrétariat* (executive/*bilingue de direction*, legal assistant, medical/*médical*).

One-year certificates

Arts administration/*administration des arts*, community musician (post), general secretarial.

Additional admission requirements: arts administration/*administration des arts* – diploma or degree in a related post-secondary field and/or related work experience in the arts field.

• Health Sciences

Three-year diplomas

Medical laboratory technology, nursing/*science infirmières*.

Additional admission requirements: medical laboratory technology – two senior credits in English, one senior credit in mathematics, senior chemistry, and either senior physics or senior biology, questionnaire, and visitation report; nursing/*sciences infirmières* – two senior credits in English, one senior credit in mathematics, one senior credit in chemistry, one senior credit in biology (plus two senior credits in *français*, *sciences infirmières* only), questionnaire, and basic cardiac life-support certificate.

Two-year diplomas

Dental hygiene /*hygiéniste dentaire* (two semesters following a two-semester dental assistant certificate program), radiography/*radiographie*.

Additional admission requirements: dental hygiene – graduation from a recognized dental assistant program or eligibility for certification as a dental assistant in Ontario, heart-saver certificate, and questionnaire; radiography/*radiographie* – two credits in advanced level mathematics from years 3 and/or 4, two credits in advanced level language from years 3 and/or 4, one credit in advanced level physics and biology or chemistry in years 3 or 4, two additional science credits at the advanced or general level in any year, questionnaire/report, CPR and first aid certificate, and interview.

One-year certificates

Ambulance and emergency care/*secours* ambulanciers, dental assistant/*soins dentaires*.

Additional admission requirements: ambulance and emergency care/*secours ambulanciers* – two senior credits in science (biology and either chemistry or physics preferred), two senior credits in English, questionnaire, Ontario driver's licence – Class "F", a valid Red Cross or St. John's Ambulance first aid certificate, a basic cardiac life support certificate and good level of physical fitness; dental assistant/*soins dentaires* – two senior credits in sciences, one of which must be biology and the other preferably chemistry or physics, and one credit in typing, a heart-saver certificate, questionnaire, and report.

• Technology

Three-year diplomas

Building operations management technology, chemical technology/*technologue en génie chimique* (second-year option in environmental biology and third-year options in material science and waste management), civil engineering technology, electronics engineering/*technologue en génie électronique*, geological engineering (third-year option in geophysics available), metallurgical engineering, mining engineering, stationary (power) engineering.

Additional admission requirements: civil engineering technology, electronics engineering/*technologue en génie électronique*, stationary (power) engineering, building operations management – two senior credits in English, two senior credits in mathematics, senior chemistry, senior physics, or senior biology; chemical engineering technology/*technologue en génie chimique*, metallurgical engineering – two senior credits in English, two senior credits in mathematics, and senior chemistry; geological engineering technology, mining engineering – two senior credits in English, two senior credits in mathematics, senior chemistry, and senior physics; instrumentation (industrial) engineering technology – successful completion of the electronics engineering technology program/*technologue en génie électronique*, or electronics engineering technician program/*technicien en génie électronique*. Two senior credits in *français* are also required for *technologue en génie chimique et génie chimique et génie électronique*.

Two-year diplomas (technician)

Chemistry, civil engineering, electronics engineering/*génie électronique*, geological engineering, industrial instrumentation, metallurgical engineering, mining engineering.

Additional admission requirements: civil engineering technician, electronics engineering/*technicien en génie électronique*, geological engineering, mining engineering - two senior credits in English, two senior credits in mathematics, senior biology, senior chemistry, senior physics, or senior

technical course; chemical engineering technician, metallurgical engineering – two senior credits in English, two senior credits in mathematics, and senior chemistry. Two senior credits in *français* are also required for *technicien en génie électronique*.

• School of Hospitality and Tourism

Two-year diploma
Hotel and restaurant management/*gestion alimentaire et hotelière*.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section and the college calendar for further details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Cambrian offers a wide range of credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for an up-to-date list of course offerings.

Additional Costs
Audio-visual – single-lens reflex camera, which costs approximately $400, and about $300 for supplies.

Child care/*techniques d'éducation spécialisée*, social services/*services sociaux*, developmental services worker/*techniques en services de développement*, early childhood education/*éducation des petits*, law clerk – approximately $150 for field-placement trips and personal expenses.
Electronics/*électronique* and industrial instrumentation – $100 for lab projects, which students retain.
Fine arts – approximately $400 per year for books and art supplies.

Chemistry/*génie chimique* and metallurgy – $25 refundable fee per year for breakage.
Ambulance and emergency care/*soins ambulanciers* – $350 for books, safety shoes, uniforms, gym attire, physical examination, first aid courses, and MTC examination.

Further Information
For further information, please contact
Manager of Admissions
Cambrian College of Applied Arts and Technology
1400 Barrydowne Rd.
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101 ext. 7503,7544

Canadore College of Applied Arts and Technology

North Bay

President: Murray A. Hewgill

Enrolment 1988-89

Full-time	2 318
Part-time	9 081

Canadore's main campus, the College Education Centre (which it shares with Nipissing College), the Canadore Technology Centre, the Commerce Court Campus, and the Heliport Campus are the four major facilities in North Bay. The Sturgeon Falls office co-ordinates college programming in West Nipissing, while individual liaison officers respond to the needs of the people of Mattawa and area.

Campus locations:

College Education Centre
100 College Drive
Box 5001
North Bay, Ontario
P1B 8K9

Sturgeon Falls Office
162 King St.
Sturgeon Falls,
Ontario
P0H 2G0

Canadore College
Heliport Campus
P.O. Box 5001
North Bay, Ontario
P1B 8K9

Canadore Technology Centre
Commercial St.
P.O. Box 5001
North Bay, Ontario
P1B 8K9

Commerce Court Campus
60 Commerce Court
P.O. Box 5001
North Bay, Ontario
P1B 8G4

Programs Offered
Bilingual programs require verbal and written fluency in both English and French.

• Arts and Science – General and Applied

Two-year diplomas
Broadcasting (radio, journalism, or television), college vocational program, crafts and design (part-time through general arts and science), early childhood education, general arts and science, graphic communications, journalism (print), law and security administration, recreation leadership, social service worker.
Additional admission requirements: two senior level English preferred.

Short programs (certificate)
Baking techniques, basic employment training, basic job readiness training, basic training for skill development, career planning for women, dining room service, English as a second language, food preparation (general) – basic and advanced, retail meat cutting, women into trades and technology.
Note: Many of the short programs are offered on a self-paced, individualized instruction mode.
Additional admission requirements: short programs normally require Grade 10 English (or French) and math, and an interview with the faculty.

• Business

Three-year diplomas
Business administration/*administration des affaires*, accounting, computer programmer analyst, marketing, small business administration.
Additional admission requirements: senior level English (or French) and Grade 11 mathematics at the advanced or general level preferred.

Two-year diplomas
Accounting, business/*commerce*, culinary management/*gestion culinaire*, food service supervision, hotel/resort and restaurant management/*gestion hôtelière*, legal assistant, microcomputer management, office administration, secretarial (executive/*secrétariat de direction*, medical, word processing), small business management.
Additional admission requirements: senior level English or French and Grade 11 mathematics at the advanced or general level preferred; hotel, resort, and restaurant management/*gestion hôtelière*, culinary management/*gestion culinaire* – complete immunization and testing required; food service supervision – senior level chemistry preferred, proof of a recent tuberculin test required.

One-year certificate
Office administration (general)/*service administration (généraux)*.

Short programs (certificates)
Automated office skills/*formation aux travaux de bureau automatise*.
Note: Short programs are offered on a self-paced, individualized instruction mode.
Additional admission requirements: short programs normally require Grade 10 English or French, mathematics, and an interview with the faculty.

• Health Sciences

Three-year diplomas
Biological technologist (environmental), medical technology (laboratory), nursing/*sciences infirmières*.

Additional admission requirements: biological, medical – preference will be given to applicants with Grade 11 mathematics, and biology, chemistry, and physics at the advanced or general level; nursing/*sciences infirmières*– Grade 11 biology and one of physics or chemistry at the advanced or general level of the senior division, completion of prescribed tests and attendance at a group information session.

Two-year diploma
Biological technician/technologist (environmental): see "Three-year diplomas" above.

One-year certificates
Dental assistant/*soins dentaires*, dental hygiene, nursing assistant.

Additional admission requirements: dental assistant/*soins dentaires*, dental hygiene – Grade 11 biology and Grade 12 chemistry or physics at the advanced or general level, completion of prescribed tests, and a manual dexterity test; dental assistant/*soins dentaires* – also requires a written report of a one-day visit to a dental office; dental hygiene – must be a dental assistant eligible for certification or a certified dental assistant with 12 months' full-time work experience; nursing assistant – Grade 11 biology and a science subject at the general or advanced level of the senior division.

Short programs (certificate)
Postdiploma psychiatric nursing for nursing assistants (eight weeks clinical, ten weeks theory), radiation protection.

Additional admission requirements: postdiploma psychiatric nursing for nursing assistants – only a registered nursing assistant or a nursing assistant graduate is eligible for admission. A personal interview is conducted to determine employment suitability in a psychiatric care facility; radiation protection – candidates must provide written evidence from their employer that they are working in a dental office and are routinely taking and processing X-rays, under the direction of a dentist.

Note: All health science programs require compliance with the Ontario Public Hospitals Act, or its equivalent in health standards.

• Technology

Two-year diplomas
Aviation technician (aircraft maintenance), aviation technician (avionics maintenance), civil engineering technician (construction), drafting technician, electronics engineering technician, electromechanical engineering technician (robotics), electronics telecommunication technician, instrumentation, mechanical-machine shop operations, small communities maintenance management.

Additional admission requirements: aviation technician (aircraft maintenance) – Grade 11 mathematics and physics at the advanced or general level; aviation technician (avionics maintenance), electromechanical engineering technician (robotics), electronics engineering technician, electronics telecommunication technician, instrumentation– Grade 11 mathematics and physics at the advanced or general level required, Grade 12 mathematics preferred; civil engineering, drafting technician – Grade 11 physics and Grade 12 mathematics at the advanced or general level preferred.

One-year certificate
Aviation pilot–rotary (helicopter pilot).

Additional admission requirements: Grade 11 physics and Grade 12 mathematics. Applicants must submit, with their application, a summary of Pilot Log Book, evidence of a D.O.T. Flight Medical Certificate Category 1, and a pilot's licence.

Short programs (certificate)
Bricklayer, cabinet maker–carpenter general, fluid power and control mechanic–heating technician, heavy-duty equipment mechanic, machinist, millwright, native alcoholism counsellor, offset printer, retail meat cutter, sawmill technician, welding fitter.

Note: Many of the short programs are offered on a self-paced, individualized instruction mode.

Additional admission requirements: short programs normally require Grade 10 English (or French) and math, and an interview with the faculty.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.Consult the college calendar for further details.

Continuing education
Many of Canadore's full-time regular programs may also be taken on a part-time basis during the day or in the evening. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and contact the Chairman of Part-Time Studies at the Canadore Technology Centre for further details.

Further Information

For further information on admission requirements and details about programs and facilities at Canadore College, and for information and application forms for student awards and loans, please contact
Registrar
Canadore College of Applied Arts and Technology
P.O. Box 5001
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 123, 131, 132, 501, 502, 509; or, if calling from outside theNorth Bay local calling area, please call, toll-free, 1-800-461-7340 for all exchanges in Ontario and Northwestern Quebec.

For further information and application forms for student residences, please contact
Residence Manager
College Education Centre Residence
P.O. Box 5005
North Bay, Ontario P1B 8L7
Telephone (705) 474-1550

Centennial College of Applied Arts and Technology

Scarborough, East York

President: I. Bev McCauley

Enrolment 1988-89

Full-time	5 481
Part-time	37 425

Centennial College has four campuses – Ashtonbee (industrial robotics, aircraft, and transportation programs); Progress (engineering technology, business administration, and secretarial science programs); Warden Woods (health sciences, communications, hospitality, consumer services, community services, and general arts and science programs); and East York.

The college offers more than 85 programs for full-time students. In addition, a wide range of part-time and evening courses are available through the School of Continuing Education throughout the year. Centennial's Management Training Centre offers many individually designed programs for business and industry, and also co-ordinates and sponsors a variety of public and client seminars.

Campus Locations:

Warden Woods
651 Warden Ave.
(south of St. Clair)
Scarborough, Ontario

Ashtonbee
75 Ashtonbee Rd.
(Warden north of Eglinton)
Scarborough, Ontario

East York
951 Carlaw Ave.
(north of Pape subway)
Toronto, Ontario

Progress
41 Progress Court
(401 and Markham Rd.)
Scarborough, Ontario

CareerInfo is a service available to anyone who needs more information about Centennial College's programs and the careers to which they lead. Call or write the Liaison Office for special career brochures, calendars, posters, and other information. This office also co-ordinates campus tours for individuals and high school groups and provides guest speakers to high school audiences.

Programs Offered

• Arts and Science – General and Applied

Three- and two-year diplomas
General arts and science (options in general studies, public administration, science studies, and visual arts).

Three-year diplomas
Communications (programs in creative advertising, journalism – print, broadcasting:

radio and TV), community services (child and youth worker), consumer services (hospitality and tourism administration options in convention management, hotel management, tour operations management, and restaurant management).

Additional admission requirements: orientation session, diagnostic/achievement test in English; communications – 500-word essay written at Centennial.

Two-year diplomas
Communications (options in book and magazine publishing, corporate communications), community services (programs in correctional worker, early childhood education, developmental services worker, recreation leadership, social service worker), consumer services (programs in fashion merchandising, home furnishings–merchandising, food service supervisor, travel counsellor).

Additional admission requirements: orientation session, diagnostic/achievement test in English; corporate communications – 500-word essay written at Centennial.

One-year certificate
General arts and science (options in general studies, science studies, and visual arts).

17-week program (one semester)
Cosmetic retailing.

Additional admission requirements: Grade 12 or mature student status, participation in orientation session, ability to identify colours correctly.

16-week program (one semester)
Pre-health science option.

Additional admission requirements: Grade 12 or mature student with one senior level science (biology preferred), Grade 10 mathematics, English test, writing sample, orientation session.

15-week certificate (one semester)
Wellness and lifestyle.

Additional admission requirements: degree or diploma in the human services area, orientation interview.

• Business

Three-year diplomas (co-op)
Business administration (options in accounting and financial management, accountant/programmer analyst, business management, international business, marketing management, production and operating management, computer programmer/analyst), office systems administration, small-business administration.

Two-year diplomas
Business (options in accounting, data processing, general studies, legal assistant, marketing), secretarial science (options in executive, legal, medical – all options include word processing).

One-year certificates
Computer programming, entrepreneurship and small business management, office administration (options in executive, general, legal, medical – all options include word processing), word processing operator (16 weeks' duration).

Additional admission requirements: computer programming – orientation session, diagnostic/achievement test in mathematics and computer aptitude test; executive and legal secretarial – 45 wpm typing and 80 wpm shorthand; medical secretarial – 45 wpm typing; word processing operator – 45 wpm typing and an English test.

Short programs
Office information administrator (52 weeks).

Special admission requirements: successful completion of a business mathematics and communications test, and basic keyboarding skills.

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: two senior level sciences (biology preferred) with satisfactory marks (percentage guidelines are assessed as 60% at the advanced level and 70% at the general level), Grade 12 mathematics, satisfactory score in an English test, and mathematics, orientation session, letters of reference (upon request) (see college calendar for more details).

One-year certificate
Ambulance and emergency care, nursing assistant.

Additional admission requirements: same as for nursing, and a Class "G" Ontario driver's licence (Class "F" advised) for ambulance and emergency care.

Note: Before undertaking this program, the applicant should be aware that under the provisions of the Ambulance Act (1975), employment as an ambulance attendant is prohibited to any individual who:
a) in the past year has received six or more demerit points on the driving record by the Registrar of Motor Vehicles; or
b) has had a driving licence suspended in the previous two years; or
c) has been prohibited from driving under the Criminal Code of Canada within the past three years; or
d) has ever been convicted of any crime involving moral turpitude for which he/she has not been pardoned.

Graduates of this program are required by Ministry of Health regulations to qualify as Emergency Medical Care Assistants (EMCA).

• Technology

Three-year diplomas (technology)
Architectural (drafting option in third year for students who have successfully completed the two-year architectural technician program), biological (industrial microbiology), chemical engineering (industrial), civil engineering (co-op) (option in public works), computer systems technology, electronics engineering (options in control systems, electronics), fluid power and robotics (hydraulics, robotics, and pneumatics), mechanical engineering (options in industrial and mechanical design).

Additional admission requirements: Grades 11 and 12 mathematics (business mathematics excluded), Grade 12 English; architectural, fluid power*, civil, mechanical engineering – Grade 11 physics; biological (microbiology) – Grade 11 or 13 biology, Grade 12 or 13 chemistry; chemical engineering – Grade 12 or 13 chemistry, Grade 11 or 13 physics or biology (physics recommended); electronics engineering – Grade 11 physics, one other senior level science course.

Two-year diplomas (technician)
Architectural (drafting), automotive (technical, administration)*, biological (industrial microbiology), chemical engineering (industrial), civil engineering (co-op) (option in public works), electronics engineering, fluid power, industrial instrumentation (process measurement and control), mechanical engineering (options in industrial, mechanical design).

Additional admission requirements: same as for the three-year programs; industrial instrumentation – Grades 11 and 12 mathematics (business mathematics excluded), Grade 12 English and chemistry, Grade 11 physics.

Metal machining program (two-year)
Options in industrial machinist, mould maker, tool and die maker.

Special admission requirements: individual assessment.

One-year programs
Automotive parts merchandising, advanced fibre/plastics composites.

Additional admission requirements: advanced fibre/plastics composites – admission is offered to graduates of a two-year diploma in mechanical or chemical engineering technology, or equivalent by permission of the department.

Technician programs (52 weeks)
Industrial robotics, avionics maintenance specialist (aviation electronics), aircraft maintenance technician.

Additional admission requirements: Grades 11 and 12 mathematics, Grade 11 physics, and successful completion of a mathematics and English test.

* Candidates who lack the necessary requirements may receive special admission advising.

Technician programs (64 weeks)
Electronics engineering technician, instrumentation engineering technician, metal machining.

Additional admission requirements: electronics – Grade 12 English, Grades 11 and 12 mathematics (business mathematics excluded), Grade 11 physics, one other senior level science course; instrumentation – Grade 12 English, Grades 11 and 12 mathematics (business mathematics excluded), Grade 11 physics, Grade 12 chemistry.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Special admission requirement: diagnostic test.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section. Candidates interested in registering in an apprenticeship program *should not apply* to Centennial College but instead should contact their local Apprenticeship Branch. Candidates to other Centennial programs should apply to the college in the normal manner.

Continuing education
Centennial College offers more than 500 credit and non-credit courses. These courses are primarily offered on a part-time studies basis. Students may seek admission to courses that start in September, January, and May of each year. The School of Continuing Education also provides special educational services to professional and other interest groups. For brochures and specific information, call 694-3241, extension 3410.

Pre-employment programs
Aircraft maintenance technician, avionics maintenance specialist.

Additional admission requirements: Grades 11 and 12 mathematics, Grade 11 physics, mathematics, and an English test.

Heavy-duty equipment mechanic, marine and small-powered equipment mechanic.

Special admission requirement: Grade 10.

Further Information

For further information regarding college programs, services, facilities, and campus visits, please contact
The Liaison Office
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 3312,3319
Toll-free 1-800-268-4419

Applications to Centennial should be directed to
The Office of the Registrar
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 698-8550
Toll-free 1-800-268-4419

For further information regarding financial assistance and related OSAP forms, please contact
Director, Financial Aid
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 439-7180 ext. 2255

Conestoga College of Applied Arts and Technology

Kitchener

President: John W. Tibbits

Enrolment 1988-89

Full-time	3 351
Part-time	40 038

Conestoga College provides educational programs to prepare people for occupations in business, industry, and health and community services.

The college's campuses are located in Cambridge, Clinton, Doon (Kitchener), Guelph, Stratford, and Waterloo. Diploma programs are offered at Doon, Guelph, Stratford, and Waterloo. Certificate programs and part-time studies are offered at all campuses except Clinton, which offers only part-time courses.

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Broadcasting (radio and television), graphic design and advertising, journalism (print) (80 weeks), printing technology (pre-press graphics) (80 weeks).

Additional admission requirements: broadcasting (radio and television) – Grade 12 English, aptitude test, interview, portfolio; graphic design and advertising – Grade 12 English, interview, portfolio of art and/or design-related work; journalism (print) – Grade 12 English, interview, portfolio, questionnaire; printing technology (pre-press graphics) – Grade 12 English, interview, portfolio.

Two-year diplomas
Early childhood education, general arts and science, law and security administration, recreation leadership, social services.

Additional admission requirements: early childhood education – Grade 12 English, questionnaire, interview, satisfactory medical record; general arts and science – Grade 12 English and mathematics, interview, questionnaire; law and security administration, recreation leadership – Grade 12 English, questionnaire, interview; social services – Grade 12 English, applicant should be at least 19 years of age by August 31 of current academic year, questionnaire, interview.

• Business

Three-year diplomas
Business administration (accounting, management studies, marketing, materials management), computer programmer/analyst.

Additional admission requirements: Grade 12 English and mathematics.

Two-year diplomas
Food and beverage management, general business, office administration (executive, information management).

Additional admission requirements: food and beverage management – Grade 12 English, questionnaire, interview, satisfactory medical record; general business – Grade 12 English and mathematics; office administration (executive) – Grade 12 English, interview; office administration (information management) – Grade 12 English.

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: Grade 11 or 12 biology, Grade 11 or 12 physics or chemistry, Grade 12 English and mathematics, questionnaire. Applicants must meet the medical criteria.

One-year certificate
Ambulance and emergency care.

Additional admission requirements:
Ontario driver's or class "F" licence, questionnaire, interview, Grade 12 English. Applicants must meet the medical criteria.

• Technology

Three-year diplomas (technology)
Civil engineering, construction engineering, electronics engineering, manufacturing engineering, mechanical engineering (options in automated manufacturing, computer-aided design and analysis).

Additional admission requirements: civil engineering – Grade 12 technical mathematics, Grade 11 or 12 physics; construction engineering, electronics engineering – Grade 12 technical mathematics, Grade 11 or 12 physics; manufacturing engineering – Grade 12 technical mathematics, Grade 11 or 12 physics, should have standing in machine shop drafting, electricity/electronics, computer technology; mechanical engineering – Grade 12 technical mathematics, Grade 11 or 12 physics.

Two-year diplomas (technician)
Electro/hydraulic, electro/mechanical, electronics engineering, mechanical engineering (options in design drafting, numerical control), quality assurance, welding engineering, woodworking.

Additional admission requirements: electronics engineering – Grade 12 technical mathematics, Grade 11 or 12 physics; electro/hydraulic, electro/mechanical – Grade 12 technical mathematics and English, Grade 11 physics; mechanical engineering – Grade 12 technical mathematics, Grade 11 or 12 physics, interview; quality assurance – Grade 10 technical mathematics, ability to read mechanical drawings; welding – Grade 12 English and mathematics, Grade 11 or 12 physics; woodworking – questionnaire, interview, Grade 12 technical mathematicals, Grade 11 or 12 physics.

One-year diplomas (52 weeks)
Electrical machinery and apparatus, metal fabrication, residential construction supervision.

Additional admission requirements: electrical machinery and apparatus – Grade 12 technical mathematics, Grade 11 or 12 physics, interview; metal fabrication – Grade 12 technical mathematics, Grade 12 English, Grade 11 or 12 physics; residential construction – Grade 12 English, Grade 12 technical mathematics, interview.

Certificate programs
Conestoga College offers a number of certificate programs that vary in length from 4 to 52 weeks. Consult the current college calendar or contact Liaison Services for details of these programs.

Part-time certificate programs
Automated control systems, civil and criminal investigation, community integration and developmental services*, early childhood education resource teacher*, gerontology – multidiscipline*, health care aide, home day-care provider, home support – level II, industrial engineering – level 1, industrial maintenance mechanic, machine tool setter operator, numerical control machining – machining centres **, numerical control machining – turning centres**, nursing assistant, Ontario nanny, quality assurance, registered nurse – critical care nursing*, registered nurse – psychiatric nursing*, registered nurse – refresher, registered nursing assistant – psychiatric nursing **, volunteer management, working with the aged – multidiscipline**.

* postdiploma program
** postcertificate program

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
A wide selection of credit and non-credit courses are offered through the Continuing Education department. Professional training courses as well as courses of special interest are available. See "Continuing Education" in the *General information on Colleges of Applied Arts and Technology* section.

Ontario basic skills
Conestoga offers this program both full-time and part-time to provide general preparatory training to assist participants plan job or career opportunities. For details, contact Liaison Services.

Business and industrial training
The college's Employer Centred Training department is active in providing specific courses for use by local businesses and industries. These courses are offered either on-site or in-college and are made possible through federal and provincial programs such as Ontario Skills Development. This department also provides linkages with local industrial training committees. For more information, contact:

Employer Centred Training
400 Collier Macmillan Drive
Cambridge, Ontario N1R 7H7
(519) 740-3320

Sponsored programs
Contact the college for information.

Further Information
For additional information, please contact
Liaison Services
Conestoga College of Applied Arts and Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 748-3516

Confederation College of Applied Arts and Technology

Thunder Bay

President: Roy V. Murray

Enrolment 1988-89

Full-time	2 562
Part-time	15 219

Confederation College offers over 50 post-secondary programs for full-time students. January or February intake is available in business-general, general arts and science, and law and security administration (Native supplement). Also offered at Confederation are various upgrading, postdiploma, continuing education, adult training, apprenticeship, and distance education programs.

The main campus is situated in Thunder Bay. Off-campus locations in Thunder Bay house the aviation programs. Many post-secondary, adult training, and continuing education programs are offered at other campus locations, including Dryden, Kenora, Fort Frances, Geraldton, Marathon, and other areas.

Programs Offered

• Arts and Science – General and Applied

Three-year diploma
Child care worker.

Two-year diplomas
Band management (Native), broadcasting (radio and TV), community gerontology, developmental services worker, early childhood education, employment equity, film production, general arts and science (core), Indian economic development, law and security administration, Native child and family worker, performing arts administration, photography, recreation leadership, security systems implementation and design, social service worker, teacher aide.

Additional admission requirements: program orientation interview; developmental services worker – student medical form; early childhood education – health questionnaire, verification of current immunization; law and security administration – student medical form; performing arts administration – related experience preferred.

One-year certificates
General vocation preparation.

• Business

Three-year diplomas
Accounting and finance administration, computer programmer analyst, industrial relations, marketing (co-op).

Additional admission requirements: satisfactory standing in first-semester core subjects; computer programmer analyst – years 3 and 4 general or advanced level mathematics.

Two-year diplomas
Accounting administration, culinary management, general business (core), hotel management, marketing, microcomputer management, personnel management, travel/tourism administration.

One-year certificates
Executive secretarial, general secretarial, legal secretarial, medical secretarial.

Additional admission requirements: executive secretarial, legal secretarial – 40 wpm keyboarding and 80 wpm shorthand for shorthand option; medical secretarial – 40 wpm keyboarding.

• Health Sciences

Two-and-one-half-year diploma
Nursing.

Additional admission requirements: year 3 or 4 chemistry and biology, year 2 mathematics, entrance tests, student medical form.

Two-year diploma
Radiography.

Additional admission requirements: years 3 and 4 advanced mathematics, years 3 and 4 advanced English, year 3 or 4 advanced physics, year 3 or 4 advanced biology or chemistry, two additional sciences, health questionnaire, admission interview, entrance test, observational visit to a radiography department, student medical form.

One-and-a-half-year diploma
Dental hygiene.

Additional admission requirements: certificate in dental assisting from a community college program or proof of certification as a dental assistant from the Ontario Dental Nurses and Assistants Association, minimum "B" average (3.00 GPA) in the dental assistant program, minimum of one year as a practising certified dental assistant, meet Healing Arts Radiation Protection Act requirements, admission test, manual dexterity, admission interview.

One-year certificate
Dental assistant.

Additional admission requirements: year 3 or 4 chemistry, year 3 or 4 biology, introductory keyboarding, years 3 and 4 English, student medical form, visit to dental office, report/questionnaire.

• Technology

Three-year diplomas
Architectural technology-design, aviation (manufacturing) engineering technology, civil engineering technology (co-op), electrical engineering (computer control) technology, interior design.

Additional admission requirements: architectural technology-design – years 3 and 4 mathematics; aviation (manufacturing) engineering technology – years 3 and 4 mathematics (physics and chemistry beneficial but not mandatory); civil engineering technology (co-op) – years 3 and 4 mathematics (physics and chemistry beneficial but not mandatory); electrical engineering (computer control) – years 3 and 4 mathematics (physics and chemistry beneficial but not required); interior design – program orientation interview.

Two-year diplomas
Air carrier/airport management, architectural technician-design, aviation technician – aircraft maintenance, aviation flight management, aviation (manufacturing) engineering technician, construction engineering technician (co-op), electrical engineering technician, electronics engineering technician, instrumentation engineering technician, interior design, mechanical engineering technician, survey technician (co-op).

Additional admission requirements: years 3 and 4 general or advanced level mathematics (business mathematics not acceptable); aviation flight management – MOT CAT 1 medical examination for commercial pilots, pre-interview questionnaire, orientation interview, admission test, years 3 and 4 English.

One-year certificates
Cabinetmaking, college vocational program, heating refrigeration and air conditioning, industrial mechanical maintenance techniques, motive power techniques (heavy equipment), motive power techniques (marine and small-powered equipment), stationary engineer 3rd and 4th class, welding techniques.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
See CAAT chart for programs offered, and the *Apprenticeship* section for details.

Continuing education
Confederation offers over 500 credit and non-credit subjects. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and the college calendar or contact the Continuing Education Office.

Adult training progams
Basic employment training, building maintenance, cabinetmaking (basic), electronics (general servicing), English as a second language, women in trades and technology, upgrading career planning for women, and a number of skills programs are offered. Contact the college for further information.

Ontario Management Development Program
This program provides an opportunity for managers, supervisors, and small-business

owners/operators to increase their knowledge and skill. Ontario provincial certificates are available upon the completion of an appropriate selection of six credits. The two certificates currently available are in business management studies and supervisory studies. For more information, contact the Registrar's Office or the Continuing Education Division.

Ontario Skills Development Offices
Ontario has established a high-quality training consulting service for Ontario firms – the Ontario Skills Development Offices (OSDOs). Each OSDO is managed by the CAAT responsible for the geographic area in which the OSDO is established. It provides regionally appropriate services and staffing to develop greater participation by smaller employers and significantly improved participation of groups previously under-represented in training.

The objectives of the training consulting service are to ensure that Ontario firms are cognizant of the role that training plays in addressing productivity and efficiency problems, that training needs are accurately identified, and that these needs are met in the most effective and cost-efficient manner.

The elements of training consulting carried out by this service are the provision of relevant information on training and education, the identification and analysis of training needs, the development or validation of training plans, advice and assistance in arranging training instruction in English or French to implement training plans, the recommendation of incentive funding, and follow-up, evaluation, and certification of the training.

The Ontario Skills Program encourages firms to provide training for their employees by lowering the costs of training. The program provides grants against a portion of direct instructional costs of training. Recommendations for Ontario Skills funding are made by the Ontario Skills Development Offices.

Further Information
For further information on admission requirements and for details about programs and facilities, please contact
Mr. Joseph A. St. Amand, Associate Registrar (Acting Registrar)

Ms. Linda Turk, Community Liaison Officer

Mr. Bob Armstrong, Placement Officer

Mr. Robert Griffiths, Financial Aid Officer

Confederation College of Applied Arts and Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
Northwestern Ontario residents call toll-free 1-800-465-6961 or 1-800-465-6962.

Durham College of Applied Arts and Technology

Oshawa

President: Gary Polonsky

Enrolment 1988-89

Full-time	2 553
Part-time	17 899

Durham College offers a wide selection of programs, five of which are unique: aviation transport and industrial engineering technology, engineering secretary, industrial management, legal administration, and sports administration.

Programs Offered

• Applied Arts

Three-year diplomas
Interior and graphic design, public relations.

*Two-year diplomas (*optional third year)*
Advertising administration, early childhood education, food and beverage management, developmental services worker, general arts and science, law and security administration, journalism, *sports administration.

Additional admission requirements: Grade 12 English; interior and graphic design – portfolio.

One-year postdiploma
Sports administration.

• Business

Three-year diplomas
Business administration (data processing, finance and accounting, general, industrial management, marketing), legal office administration, office systems administration, retail merchandising (fashion).

Additional admission requirements: Grade 12 English, Grade 12 mathematics recommended. Students wishing to take a three-year program should be aware that it is academically more demanding (particularly in mathematics) than a two-year program.

Two-year diplomas
Business (data processing, finance and accounting, general, human resources management, marketing, materials management), office administration (secretarial) (engineering, general, medical, legal, word processing).

Additional admission requirements: business – Grade 12 English, Grade 12 mathematics preferred.

• Health Sciences

Three-year diploma
Nursing.
Upon successful completion of the examinations set by the College of Nurses of Ontario, this program leads to certification as a registered nurse. Limited enrolment.

Additional admission requirements: Grade 12 English, senior level chemistry and biology, program-specific questionnaire.

One-year certificates
Nursing assistant.
Upon successful completion of the examinations set by the College of Nurses of Ontario, this program leads to certification as a registered nursing assistant. Limited enrolment.

Additional admission requirements: senior level biology, program-specific questionnaire; mature students whose work experience and personal background indicate a likelihood of success are encouraged to apply.

Dental assistant.
This program is designed to prepare skilled assistants for employment in dental offices and clinics. Limited enrolment.

Additional admission requirements: Grade 12 English, senior level credits in chemistry and biology, program-specific questionnaire, typing/keyboarding recommended.

Dental hygiene.
This program is designed to train students to the level that will qualify them to write the Royal College of Dental Surgeons registration examination for hygienists. Limited enrolment.

Additional admission requirements: successful completion of the dental-assisting program in an Ontario CAAT, or equivalent*, minimum one year's work experience as a dental assistant, a dentist employer's recommendation, program-specific questionnaire.

*Equivalent: certified dental assistant with at least two years' work experience within the past five years, HARP certified, and credits in the following CAAT courses: anatomy and physiology, dental anatomy, nutrition, preventive dentisty.

• Technology

Three-year diplomas (technology)
Aviation transport and industrial engineering, chemical engineering, food and drug, civil engineering, electronics engineering (computer and industrial options), mechanical engineering (CAD/CAM and prodution options).

Additional admission requirements: Year 4 English and mathematics (general-technical or advanced) required; general level science credits an asset.

Two-year diplomas (technician)
Civil, electronics (computer and office information systems options), mechanical (general and NC machining options), electromechanical (robotics).

Additionnal admission requirements: Year 4 English and mathematics.

• Non-semestered programs

On request and to fill specifically identified needs, Durham offers programs ranging from 8 to 64 weeks in length, leading to certificates and diplomas in high-technology programs such as electronics, CAD/CAM, computer science, and computer graphics.

Academic upgrading
Through the newly created Consulting Services, Access and Productivity Division, Durham College offers a number of upgrading and college preparatory programs. It also offers skill programs and special programs for business and industry. The programs include: vocational assessment, literacy, academic upgrading, college preparatory, youth, women's pre-apprenticeship, apprenticeship, commercial, consulting for business and industry. Contact the C.A.P. division at the Simcoe Building of Durham College.

Continuing education
Along with a variety of non-credit, special-interest courses, Durham offers certificate and diploma program courses on a part-time basis throughout the year. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and contact the Registrar's Office.

Further Information
For further information about admission requirements and details on programs and facilities, please contact
Admissions Officer
Durham College of Applied Arts and Technology
P.O. Box 385
Simcoe St. N.
Oshawa, Ontario L1H 7L7

For information about student awards and loans, please contact
Financial Aid Officer
Durham College of Applied Arts and Technology
P.O. Box 385
Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210

Fanshawe College of Applied Arts and Technology

London

President: Dr. Barry Moore

Enrolment 1988-89

Full-time	5 944
Part-time	52 420

The Fanshawe College main campus is located in London. The college has three other campuses, which serve the counties of Middlesex, Elgin, Oxford, and the Norfolk portion of the Haldimand-Norfolk region.

Campus locations:

Oxford St. Campus
1460 Oxford St. East
London, Ont.
N5W 5H1

Adult Education
St. Thomas Campus
10 Ontario Road
St. Thomas, Ont.
N5P 3N4

Woodstock Campus
369 Finkle St.
Woodstock, Ontario
N4V 1A3

J.N. Allan Campus
Ireland Rd.
Simcoe, Ontario
N3Y 4K4

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Communications (advertising art, fine art, photography), community services (major in child and youth worker), design – co-op (majors in fashion, interior, industrial, landscape, urban).

Two-year diplomas
Communications (majors in audio-visual technician, broadcasting radio, broadcasting television, journalism broadcast, music industry arts – recording engineering and recorded music production, photography), community services (majors in developmental services worker, early childhood education, social service worker), consumer services (majors in general arts and science, law and security administration (police program and general program), hotel and restaurant management – co-op, legal assistant – co-op, library technician, physical fitness instructor, recreation leadership, tourism and travel counsellor – co-op, urban affairs and real estate.
Additional admission requirements: law and security administration, legal assistant, tourism and travel counsellor – Grade 12 English.

One-year certificate
Legal assistant – co-op
Additional admission requirements: at least one complete year of postsecondary education or at least two years' related work experience.

• Business

Three-year diplomas
Business administration (majors in accounting, marketing), business information systems – co-op, office systems administration – co-op.

Two-year diplomas
Business (majors in accounting – co-op, computer programmer, finance – co-op, information systems – co-op, marketing – co-op, purchasing), farm business management, office administration (executive – co-op, legal – co-op, medical – co-op).

One-year certificate
Office administration – general.

• Health Sciences

Three-year diploma
Medical laboratory technology, nursing.
Additional admission requirements: medical laboratory technology – Grade 12 advanced English, Grade 12 advanced mathematics, Grade 11 or 12 advanced chemistry, Grade 11 or 12 advanced biology; nursing – Grade 12 English (preferably advanced), Grade 11 or 12 human biology (preferably advanced), Grade 11 or 12 chemistry or physics, Grade 11 mathematics for technology or for business and consumers.

Two-year diplomas
Radiography, respiratory therapy.
Additional admission requirements: radiography – two credits in Grade 11 and/or 12 advanced mathematics and two credits in Grade 11 and/or 12 advanced English, one credit in Grade 11 or 12 advanced physics, one credit in Grade 11 or 12 advanced chemistry or biology, and two other science credits, general or advanced; respiratory therapy – Grade 11 or 12 advanced physics, Grade 11 or 12 chemistry, and Grade 12 advanced mathematics.

One-year certificates
Ambulance and emergency care, dental assistant, health records technician, pre-health science.
Additional admission requirements: ambulance and emergency care – Grade 11 or 12 biology and chemistry Grade 12 English; dental assistant – Grade 11 or 12 chemistry or physics, Grade 11 mathematics for technology or for business and consumers, Grade 11 or 12 biology (preferably advanced), and 30 wpm typing; health records technician – Grade 12 English, one Grade 11 or 12 science credit, Grade 11 or 12 mathematics for technology or for business and consumers or accounting, and one year typing (35 wpm).

One-year postcertificate
Dental hygiene.
Additional admission requirements: one of: (a) successful completion of CAAT dental assistant program, or (b)OSSD/OSSGD

with Grade 11 or 12 biology and chemistry or the equivalent plus completion of a dental assisting training program recognized by RCDS (Ontario), or (c) mature applicant with proof of certification or eligibility for certification by the Ontario Dental Nurses and Assistants Association. Also, successful completion of the Healing Arts Radiation Protection (HARP) module, and at least one year of full-time work experience as a certified or certifiable dental assistant.

• Technology

Three-year diplomas (technology)
Air-water resources field technology (co-op), architectural (co-op), civil engineering (co-op), construction engineering management (co-op), control engineering systems (co-op), electrical engineering, electronics engineering (co-op), manufacturing engineering (co-op), mechanical engineering (mobile equipment) (co-op), science laboratory technology (co-op).

Additional admission requirements: air-water resources field technology, science laboratory technology – Grade 12 mathematics for technology, Grade 11 or 12 chemistry and one of Grade 11 or 12 physics or Grade 12 advanced mathematics; architectural, civil – Grade 12 mathematics for technology; construction management – Grade 12 mathematics for technology; control engineering systems, electrical, electronics – Grade 12 advanced mathematics, Grade 11 or 12 physics; manufacturing, mechanical (mobile equipment) – Grade 12 mathematics for technology.

Two-year diplomas (technician)
Air conditioning refrigeration engineering, architectural, construction (supervisor), electrical engineering (co-op), electronics engineering, electronics technician-robotics and process control, manufacturing engineering (co-op), mechanical (design) engineering (co-op), metallurgical engineering (co-op), motive power (automotive and diesel), stationary engineering – 4th and 3rd class, survey (co-op).

Additional admission requirements: air conditioning, refrigeration engineering, architectural, construction (supervisor) – Grade 12 mathematics for technology; electrical, electronics, electronics technician-robotics and process control – Grade 12 mathematics for technology; survey – Grade 12 mathematics for technology; mechanical (design) – Grade 12 mathematics for technology; metallurgical – Grade 12 mathematics for technology; motive power – Grade 12 mathematics for technology or for business and consumers.

One-year certificates
Construction carpentry techniques, motive power technician (parts merchandising).

One-year postdiploma
Electronics engineering technician/technology (biomedical).

Additional admission requirements:
two-year electronics engineering diploma or electronics technician–robotics and process control diploma or three-year electrical, electronics, or control systems diploma plus Grade 11 or 12 chemistry or mature student status with extensive electronics background plus Grade 11 or 12 chemistry.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Credit, career, special interest, and co-operative courses and workshops are offered in London and in 25 other communities served by the college. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult the college calendar for details.

Co-operative Education and Community Relations Division
This division provides integrated services through the following departments: Canadian Job Strategies; Futures; International Education, Marketing Services; Ontario Skills Development Office, Co-operative Education, and Graduate Placement.

One-third of Fanshawe's full-time postsecondary programs are operated on the co-op plan. Co-op education integrates related on-the-job work experience with classroom theory during alternating periods of work and study. It helps students orient themselves to the world of work, helps them develop their human-relations skills and job-search techniques, and usually results in well-developed career plans before graduation.

Ontario Skills Development is a government program that acts as a customer-service department for employers and is involved with human-resources planning and training.

Canadian Job Strategies is a federal government program designed to meet the area's industrial-skill needs by providing language and skills training and upgrading.

Futures is an Ontario government program designed to assist unemployed young people between the ages of 15 and 24. The Ontario government provides each trainee with a living allowance during periods of in-college or in-industry training.

Further Information
Futher information may be obtained by writing to
Fanshawe College
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4100

or by contacting offices of the college at any of the following Fanshawe College locations

1460 Oxford St. E.
London, Ontario N5W 5H1
Telephone (519) 452-4100

Ireland Rd.
P.O. Box 10
Simcoe, Ontario N3Y 4K4
Telephone (519) 426-8260

369 Finkle St.
Woodstock, Ontario N4V 1A3
Telephone (519) 537-6051

10 Ontario Rd.
St. Thomas, Ontario N5P 3N4
Telephone (519) 633-2030

George Brown College of Applied Arts and Technology

Toronto

President: Douglas E. Light

Enrolment 1988-89

Full-time	6 103
Part-time	54 969

George Brown College of Applied Arts and Technology operates four main campuses and a continuing education division and offers nearly 200 programs to prospective students.

Campus locations:

Casa Loma Campus
160 Kendal Ave.
Toronto, Ontario
M5R 1M3

Nightingale Campus
2 Murray St.
Toronto, Ontario
M5T 1T6

Kensington Campus
21 Nassau St.
Toronto, Ontario
M5T 1M3

St. James Campus
200 King St. E.
Toronto, Ontario
M5A 3W8

Continuing Education
258 Adelaide St. E.
Toronto, Ontario
M5A 1N1

Programs Offered

• Arts and Science – General and Applied

Three-year diplomas
Child and youth worker, theatre arts.
Additional admission requirements:
Child and youth worker – questionnaire and interview; theatre arts – audition and interview.

Two-year diplomas
Activation co-ordinator, community worker, day care management, early childhood education, general arts and science, human services counsellor, theatre arts.
Additional admission requirements:
activation co-ordinator, community worker, early childhood education, human services counsellor – questionnaire and interview.

One-year certificates
Basic employment training (basic training for skills development), day care assistant, English as a second language, English for science and high technology, headstart for the hearing impaired, vocational orientation, job readiness (BJRT), redirection through education, straight truck driver, tractor-trailer driver, training the handicapped adult in transition, working skills for women.
Additional admission requirements:
requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information. Straight truck driver, tractor-trailer driver – 18 years of age, with an Ontario driver's licence. Students must produce an Ontario Driver's Licence Conversion Form, available from any Ontario Driver Examination Centre.

Fashion Technology

Three-year diplomas
Jewellery arts.
Additional admission requirements:
portfolio required.

Two-year diplomas
Apparel manufacturing, ceramics, creative fashion design, furniture production and design, watch technician.
Additional admission requirements: questionnaire and orientation interview may be required.

One-year certificates
Apparel pattern drafting, furniture (woodworking and finishing), furniture upholstery (repair), gem setting, gemmology, industrial power sewing, industrial power sewing machine mechanic, jewellery repairs.
Additional admission requirements:
requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

Graphic Arts

Three-year diplomas
Graphic arts printing technology, graphic design.
Additional admission requirements:
graphic arts printing technology – Grades 11 and 12 English and mathematics, tests in mechanical reasoning and colour vision acuity; graphic design – portfolio and art test.

Two-year diplomas
Printing technician, graphic sign design and production.
Additional admission requirements:
Grades 11 and 12 English and mathematics, tests in mechanical reasoning and colour vision acuity.

One-year certificates
Commercial art, computer typesetter, offset printing, screen process printing, signwriting.
Additional admission requirements:
requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

• Business

Three-year diplomas (six semesters)
Business administration (options in accounting, marketing, small business), court reporting (stenograph).
Additional admission requirements:
business administration – Grades 11 and 12 mathematics and English; court reporting (stenograph) – Grade 12 English, English aptitude test, 25 wpm typing.

Two-year diplomas
Business (options in accounting, distribution logistics, general, information systems, insurance, marketing) (September and January admission), computer programmer, health records administrator, property management, retail management, office administration (options in general, executive, legal, medical and information systems) (September and January admission), records and information management.
Additional admission requirements:
business, computer programmer, property management, records and information management, retail management – Grades 11 and 12 English and mathematics; office administration – Grades 11 and 12 English, 35 wpm typing; health records administrator – Grade 12 chemistry, English, and mathematics, Grade 11 biology, questionnaire; property management – interview.

One-year certificates
Automated office procedures, court reporting (stenomask) (three trimesters), receptionist-typist, sales.
Additional admission requirements: court reporting (stenomask) – interview, tests in English and voice; sales – Grades 11 and 12 mathematics and English.

One-year certificates
Microcomputer applications training, microcomputer operator, STEP (secretarial training and employment program), systems analyst.
Additional admission requirements:
requirements vary according to the program. Many programs require less than an OSSGD. Contact the college for information.

Hospitality

Two-year diplomas
Culinary management, food and beverage management, hotel management.
Additional admission requirements: an orientation interview.

One-year certificates
Baking techniques, bartending, chef training (pre-employment) (September and January admission), Chinese cooking (basic and advanced), dining room service, food preparation general (basic and advanced), food service and bartending, food service supervisor, hotel front office and reception, retail meat cutting.
Additional admission requirements:
requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

• Health Sciences

Three-year diplomas
Chiropody, dental technology, denture therapy, nursing.
Additional admission requirements:
dental technology, denture therapy – Grade 12 English and chemistry, Grade 11 physics

and biology, manual dexterity test; chiropody, nursing – Grade 12 chemistry, English, and mathematics, Grade 11 biology and physics.

Two-year diplomas
Fitness instructor, orthotic/prosthetic technician.
Additional admission requirements: fitness instructor – Grade 12 English and Grade 11 biology, selection test; orthotic/prosthetics technician – Grade 11 and 12 English, physics, and biology, manual dexterity test.

Two-year postdiploma
Clinical methods in orthotics/prosthetics.
Additional admission requirements: graduate in orthotic/prosthetic technician, kinesiology, physiotherapy, physical education or other related programs, interview.

One-year diploma
Dental assistant.
Additional admission requirements: Grade 12 chemistry, Grade 11 biology, 30 wpm typing, selection test.

One-year postsecondary
Pre-health sciences (September and January admission).

One-year postdiploma
Dental hygiene (expanded duties), dental hygiene, registered nurse–critical care (September and February admission), registered nurse–perinatal intensive care (September and February admission), registered nurse–occupational health nursing, registered nurse–operating room (September and February admission), registered nurse–rehabilitation nursing, upgrading program for graduate nurses (September, December, and March admission), mental health program.
Additional admission requirements: dental hygiene (expanded duties) – Ontario certification as a dental hygienist, one year of work experience, manual dexterity test, interview; dental hygienist – Ontario certification as a dental assistant, 8 months' work experience, dental science test.

16-week certificate
Health care aide.
Admission requirements: Grade 10, fluency in English, or mature student with some work experience in the field.

• Technology

Three-year diplomas
Air conditioning engineering technology, architectural technology, civil engineering technology, construction engineering technology, electrical engineering technology, electronics engineering technology (two calendar years), instrumentation engineering technology (two calendar years), mechanical engineering technology (tool and machine design).
Additional admission requirements: civil, construction – Grades 11 and 12 mathematics (business mathematics not included); electrical, electronics, instrumentation – Grades 11 and 12 English and mathematics.

Two-year diplomas
Air conditioning/refrigeration engineering technician, architectural technician (drafting), civil engineering technician, construction engineering technician (management), drafting technician, electrical engineering technician, electronics engineering technician, instrumentation engineering technician (industrial), mechanical engineering technician (drafting design–CAD/CAM), mechanical engineering technician (machine design), mechanical engineering technician (production), mechanical engineering technician (tool design), mechanical engineering technician (toolmaking), mechanical technician (maintenance), mouldmaking technician, piano technician, residential construction management, stationary power plant engineering, watch technician, welding technician.
Additional admission requirements: electrical, electronics, instrumentation (industrial), mechanical (toolmaking), stationary power plant engineering – Grades 11 and 12 English and mathematics; air conditioning, refrigeration, civil, construction (management), drafting technician, mechanical (building services drafting), mechanical (drafting design), mechanical (tool design) – Grades 11 and 12 mathematics; piano technician – audition and interview.

One-year certificate
Welding specialist.
Additional admission requirements: specialization in welding.

One-year certificates
Appliance servicing, business equipment servicing, carpenter general, drafting, electronics (audio equipment and systems), electronics (basic skills, cable distribution systems, desktop composition, digital equipment and systems, home product link (HPL) installation and service, industrial control, interfacing microcomputer peripherals, office systems servicing, satellite TVRO servicing, video production and editing, video systems and service), gas fitter, heating technician, industrial electronic controls (journeyman), industrial power sewing machine mechanic, instrumentation mechanic, machine shop, masonry, mechanical engineering drafting, microcomputer maintenance, process piping design technician, pre-technology, refrigeration, stationary engineering (4th class), welding fitter, welding fitter refresher, welding industrial pipe, welding operator, women into trades and technology.
Additional admission requirements: requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

• Alternative Learning

Academic upgrading, pre-health science. For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

Apprenticeship
Some of these programs are offered on a part-time or day-release basis as well as in the traditional pattern of 8 to 10 weeks at the college separated by on-the-job training. For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
George Brown College offers several hundred continuing education courses, both day and evening, throughout the year. Along with general interest courses, credit courses and refresher courses for professionals (those in skilled trades and high-technology areas), are available. The Continuing Education Department also co-ordinates special courses for various professional associations.
For general information, see "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the Information Services Department at the college for brochures and specific information: (416) 867-2464.

Training in Business and Industry
This department co-ordinates the Futures program, the Canada Manpower Industrial Training Program (CMITP), the TIBI service for business and industry (through which specially developed and individualized packages of courses or programs are conducted on the client's premises), and the Ontario Management Development Program (OMDP) courses, several of which are available on a modular basis.

Further Information
Additional information is available by contacting
Information Services Department
George Brown College of Applied Arts and Technology
Box 1015, Station B
Toronto, Ontario M5T 2T9
Telephone (416) 867-2000, 867-2464

Georgian College of Applied Arts and Technology

Barrie

President: Wayne F.J. Busch

Enrolment 1988-89

Full-time	3 801
Part-time	25 063

Georgian College has three major campuses, in Barrie, Orillia, and Owen Sound, and maintains regional campuses in Parry Sound, Midland, Collingwood, and Orangeville.

Campus locations:

Owen Sound Campus
1150 8th St. E.
P.O. Box 700
Owen Sound, Ontario
N4K 5R4

Barrie Campus
One Georgian Dr.
Barrie, Ontario
L4M 3X9

Orillia Campus
825 Memorial Ave.
P.O. Box 2316
Orillia, Ontario
L3V 6S2

Programs Offered

• School of Design and Visual Arts

Three-year diplomas
Design arts (creative arts, graphic design, industrial design, and interior design, with material arts options within these programs in ceramics, cold glass, hot glass, stained glass, textiles and weaving), design arts (jewellery and metals) (co-op).

Two-year diplomas
Design arts (same options as the three-year programs, except for jewellery and metals).

• School of Career Development

Two-year diploma and one-year certificate
The general arts and science program delivers courses in core areas such as language, humanities, and physical and social sciences. There is a health sciences option and an interim semester option that provides candidates with an opportunity to increase their academic skills.

Academic upgrading
This training is available at all three campuses. For programs, see the CAAT chart at the beginning of this section. For a general description, see "Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

• School of Business

Three-year diplomas
Business administration (co-op), business administration–accounting (co-op), business administration–marketing (co-op), business administration–automotive marketing (co-op), business administration–automotive marketing/*administration des affaires marketing automobile* bilingual (co-op), computer programmer/analyst (co-op).
Additional admission requirements: computer programmer/analyst – Grade 12 general mathematics, English strongly recommended.

Two-year diplomas
Advertising, business (second-year options in marketing (co-op) and accounting (co-op), native education (co-op)), fashion merchandising (co-op), office administration (legal, medical), law and security administration.
Additional admission requirements: office administration (legal, medical) – office administration general certificate or equivalent; law and security administration – Grade 12 general English.

One-year certificate
Office administration–general.

• School of Health Sciences

Three-year diploma
Nursing.
Additional admission requirements: two Grade 11 or 12 general level sciences (biology and either chemistry or physics), Grade 12 general level English and mathematics for technology, and basic cardiac life support certificate recommended.

Two-year diplomas
Developmental services worker, early childhood education, opthalmic dispenser.
Additional admission requirements: developmental services worker – Grade 12 general level English; early childhood education – Grade 12 general level English; opthalmic dispenser – Grade 12 general level mathematics, Grade 11 general level physics.

One-year certificates
Dental assistant, nursing assistant.
Additional admission requirements: dental assistant – Grade 12 general level English and Grade 11 or 12 general level biology and chemistry, typing at 30 wpm; nursing assistant – basic cardiaclife support certificate recommended, applicants intending to enter the nursing program must meet the requirements of that program.

One-year diploma
Dental hygiene.
Additional admission requirements: graduate (with certification) of a recognized dental assisting program, 6 to 12 months' full-time work experience as a certified dental assistant, first aid and CPR certificates.

One-year postgraduate certificate
Communicative disorders assistant, recreation for special populations.
Additional admission requirements: college diploma or university degree in a social sciences or human services program.

• School of Engineering Technology

Three-year diplomas (technology)
Civil aviation (air carrier management and operations, airport management and operations, air traffic services (co-op), civil engineering technology–municipal (co-op), civil engineering technology–resources (co-op), electrical engineering (co-op), electronics engineering (co-op), mechanical engineering (co-op), marine engineering technology (co-op), marine technology – navigation (co-op), marine technology–recreation (co-op).
Additional admission requirements: Grade 12 general level English and mathematics for technology, Grade 11 or 12 general level physics or chemistry recommended; marine engineering – Grade 12 general level English, mathematics for technology, Grade 11 general level physics; navigation – Grade 12 general level English, mathematics for technology, and chemistry, Grade 11 general level physics; marine technology–recreation – Grade 12 general level English and mathematics for technology, and Grade 11 or 12 general level physics or chemistry recommended.

Two-year diplomas (technician)
Civil engineering (co-op), electrical engineering (co-op), electronics engineering, mechanical drafting (co-op), industrial engineering (co-op), survey (co-op).
Additional admission requiements: Grade 12 general level English and mathematics for technology, Grade 11 or 12 general level physics or chemistry recommended.

• School of Hospitality and Tourism

Three-year diplomas
Hotel and resort administration (co-op), tourism management (co-op).

Two-year diplomas
Culinary management (co-op), hotel and resort operation (co-op).

School of Continuous Learning
Both credit and non-credit courses are offered to adult students in a number of locations throughout the Georgian Bay region. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the School of Continuous Learning at the college for details.

Co-operative education
Georgian College operates many co-operative programs. These programs have both an academic element and a paid-work portion, which is taken in industry. The paid-work element may extend from four to

eight months, depending on the nature of the arrangement with industry.

Additional Costs

Additional costs that must be borne by the student are as follows:
(a) textbooks and equipment, minimum $200 to a maximum of $1000 for first year;
(b) off-campus accommodation and board, at least $75 per week.

The Barrie Campus of the college has residence facilities for 250 students.

Further Information

Additional information is available from
Roman Woloszczuk,Registrar

Cathy Neuss,Manager, Office Services (Admissions/Registration)

Steve Robinson, Manager, Financial Aid

Jim Mackey, Director, College Information Services

Georgian College of Applied Arts and Technology
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951 or 722-1511
Toll-free 1-800-461-9696

Information concerning the Owen Sound Campus may be obtained from
Office of the Registrar
Georgian College of Applied Arts and Technology
1150 8th St. E.
P.O. Box 700
Owen Sound, Ontario N4K 5R4
Telephone (519) 376-0682

Information concerning the Orillia campus may be obtained from
Office of the Registrar
Georgian College of Applied Arts and Technology
825 Memorial Ave.
P.O. Box 2316
Orillia, Ontario L3V 6S2
Telephone (705) 325-2705
Toll-free 1-800-461-0218

Humber College of Applied Arts and Technology

Toronto

President: Robert A. Gordon

Enrolment 1988-89

Full-time	8 400
Part-time	77 739

Humber College offers a variety of programming at seven locations, which serve the Etobicoke and York areas. The North and Lakeshore campuses offer a full range of postsecondary programs, a large selection of technical certificates, and apprenticeship and career-oriented programs. The York-Eglinton Centre and Keelesdale campuses offer academic and commercial programs, English as a second language, and many community programs and part-time courses.

Campus locations:

North Campus
205 Humber College
Etobicoke, Ontario

Osler Campus
5 Queenslea Ave.
Weston, Ontario

Woodbine Centre
500 Rexdale Blvd.
Etobicoke, Ontario

Keelesdale Campus
88 Industry St.
Weston, Ontario

Humber Lakeshore Campus
3199 Lakeshore Blvd.
Toronto, Ontario

Sailing School
Humber Bay Park W.
Lakeshore Blvd.
Etobicoke, Ontario

York-Eglinton Centre Campus
1669 Eglinton Ave.West
Toronto, Ontario

Programs Offered

• Arts and Science – Applied

Diplomas
Advertising and graphic design, advertising (media sales), audiovisual technician, creative photography, fashion arts (modelling, fashion, and cosmetic management), film and TV production, industrial design, interior design, journalism, landscape technician/technology, music, nature interpreter (postdiploma), package design, photographic laboratory technician, public relations, radio broadcasting, retail floristry, theatre arts, urban tree maintenance technician.

Additional admission requirements: many of the above require a pre-admission interview, audition, and/or test.

Certificates
Arts administration, design foundations, grounds maintenance, photocraphic laboratory operator, public relations (postdiploma), radio broadcasting (postdiploma).

Additional admission requirements: see above.

Human studies diplomas and certificates
General arts and science.

Human studies academic certificates
Academic upgrading (college preparatory), advanced English as a second language, job-readiness training, English as a second language.

Additional admission requirements: admission is open to any adult 19 years of age and over on a "first-come, first-served" basis. Most applicants are requested to take functional level testing, after an interview with an admissions officer. Advanced English as a second language requires two to three years' practical work experience in English, above and beyond completion of the basic program.

• Business

Diplomas
Accountancy, business administration (profiles in human resources management, marketing administration, microsystems management, operations management, and management systems), computer information systems, computer programming (co-op and continuous non-semester), computer programming (systems analyst) (co-op), financial services administration, general business, legal assistant, marketing (profile in merchandising management), microcomputer management, office administration–secretarial (executive, legal, medical), retail management (co-op), word processing.

Additional admission requirements: Grade 12 general level English and mathematics.

Certificates
Human resources management, marketing management (postdiploma), small-business management.

Additional admission requirements: a pre-admission interview and pre-tests in communications and mathematics may be required; human resources management, marketing management – college diploma, university degree, or related experience.

• Health Sciences

Diplomas
Early childhood education, early childhood education for the developmentally handicapped, funeral service education, nursing.

Certificates
Ambulance and emergency care, dying and bereavement (postdiploma), early childhood education resource teacher (postdiploma), gerontology (postdiploma), health care aide and activation assistant, human sexuality counselling and teaching (postdiploma), life-threatening illness (postdiploma), nursing assistant, pharmacy assistant, registered nursing (postdiploma specialities), registered nursing assistant–operating room (postcertificate).

Additional admission requirements: pre-admission interview (group or individual) and/or testing and health certificate (health history and physician's statement of health).

Please check college brochures for specific academic and other additional requirements for programs listed in this area.

• Hospitality, Tourism, and Leisure Management

Diplomas
Arena management, culinary management, equine studies, food industry technician, hotel and restaurant administration, recreation leadership, ski resort operations and management, travel and tourism.

Additional admission requirements: Grade 12 general level English, Grade 12 mathematics highly recommended.

Certificates
Food and beverage service, entry-level cook, food preparation, horse care and equine skills, jockey training and exercise rider, ski resort operations management (diploma and certificate), recreation club management, sports equipment specialist.

Additional admission requirements: some programs may require a pre-admission interview and/or related work experience.

• Human Services

Diplomas
Child and youth worker, developmental services worker, law and security administration, rehabilitation worker, social service worker.

Additional admission requirements: volunteer experience, pre-admission interview, or attendance at orientation session, medical examination, and in some cases testing.

• Technology

Diplomas
Air conditioning and refrigeration engineering, architectural (design) technician/technology (co-op), chemical (industrial) engineering technology, chemical (laboratory) technician, chemical (microbiology) technology, civil engineering technician/technology (co-op), computer engineering technology, electrical engineering technology (control systems), electronics engineering technician/technology, electro-mechanical engineering technician/technology, hydrographic survey technology, industrial (management) engineering technology, environmental systems engineering technology (energy management), instrumentation (industrial) engineering technician, manufacturing engineering technician/technology, mechanical (drafting design) engineering technician, mechanical (numerical control) technician, mechanical (tool and die) engineering technician, quality engineering technician/ technology, safety engineering technology, small craft and marina technician/technology.

Additional admission requirements: Grade 12 English, Grade 12 technical or academic mathematics; some programs also require a senior science and senior technical courses. All credits should be on a general level.

Technical certificates
Cabinet making, computer numeric control machine programmer/operator, electronics, industrial maintenance (packaging) mechanic, machine shop practice, marine and small-powered equipment mechanic, precision instrument mechanic, welder fitter, welder refresher.

Additional admission requirements: functional level testing is required, and a pre-admission interview may be requested. A working knowledge of mathematics, fractions, decimals, mixed operations, measurement, and dimensions is recommended. In several programs, substitution, equations, formulas, and graphing (trigonometry) may also be required.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuous learning
Continuous Learning and Development provides part-time studies and activities in more than 1000 special interest areas. It offers credit and special interest courses and workshops, as well as seminars and conferences in response to a continuing liaison with business, industrial, government, and community organizations. In addition, each of the college's divisions endeavours to meet the needs of the community by offering specialized programs for credit purposes as well as courses designed to meet the general interests of the community. These courses are offered at all campus locations and the Neighbourhood Learning Centres.

Further Information

For further information on admission requirements and details about full-time programs and facilities, please contact
Office of the Registrar
Humber College of Applied Arts and Technology
P.O. Box 1900
Etobicoke, Ontario M9W 5L7
Telephone (416) 675-5000

For a calendar of continuing education courses, please contact
Continuous Learning and Development
Humber College of Applied Arts and Technology
P.O. Box 1900
Etobicoke, Ontario M9W 5L7
Telephone (416) 675-5005

For information on and application forms for the Ontario Student Assistance Program, please contact
Financial Aid Office
Humber College of Applied Arts and Technology
P.O. Box 1900
Etobicoke, Ontario M9W 5L7
Telephone (416) 675-3111

Lambton College of Applied Arts and Technology

Sarnia

President: Tony Wilkinson

Enrolment 1988-89

Full-time	1 628
Part-time	11 307

Lambton College serves the Sarnia/ Lambton County area.

Campus locations:

Modeland Road Campus
1457 London Rd.
P.O. Box 969
Sarnia, Ontario
N7T 7K4

Kettle Point Campus
P.O. Box 748
Forest, Ontario
(upgrading only)

Riverside Campus
265 N. Front St.
P.O. Box 969
Sarnia, Ontario
N7T 7K4

Industrial Fire School
Lasalle Rd.
Sarnia, Ontario
(fire training for industry)

Mechanics Training Centre
K-Mart Shopping Centre
London Rd.
(automotive mechanics and small-engine repair)

Programs Offered

• Arts and Science – General and Applied

Two-year diplomas
Early childhood education, general arts and science, hospitality and tourism management, law and security, parks operation and services, radio television and journalism arts, social service worker.

One-year certificates
Art fundamentals, early childhood education resource teacher, graphic design, infant/ toddler care and guidance.

Additional admission requirements: early childhood education resource teacher – successful completion of a 2-year early childhood education prgram; infant/toddler care and guidance – successful completion of the first year of, or graduation from, an acceptable early childhood education program. Each 10-week term is offered over two consecutive summers.

Note: Students with an appropriate selection of OACs may be admitted directly to the second year of any general arts and science programs.

• Business

Three-year diplomas
Accounting, business administration (majors in accounting, marketing, combination accounting/marketing), computer programmer analyst.

Additional admission requirements: computer programmer analyst – mathematics for technology.

Two-year diplomas
Business (majors in accounting, marketing), computer programmer, office administration (majors in executive, medical).

The business and business administration programs have a common first term, enabling new students to delay selecting their programs until the beginning of the second term. Office administration has a common first year, with specialization in the second year. Students can then make an enlightened decision about the choice of their programs.

One-year certificate
Industrial sales, office administration.

• Health Sciences

Three-year diplomas
Nursing (six terms).
Graduates of this program are able to plan and give care to individuals of all ages, and to function as general staff nurses in health care agencies in which leadership is provided by experienced personnel.

Selected clinical experiences provide the opportunity for students to relate theory to nursing practice. Students receive clinical experience in a variety of community agencies, general hospitals, public health agencies, doctors' offices, and senior citizens' and extended care facilities.

Successful completion of this program qualifies graduates to write the registration examinations of the College of Nurses of Ontario.

Additional admission requirements: OSSD with at least 70% at the general level and 60% at the advanced level in year 4 English and mathematics, biology, chemistry, and physics at year 3, year 4, or OAC, or equivalent, information sessions, mature students may also be considered for admission.

Medical laboratory technology.
This three-year program emphasizes the theoretical aspects of clinical chemistry, clinical microbiology, haematology, histotechnology, and immunohaematology. Clinical sessions at an associated hospital are used to illustrate the theory and cover the practical aspects of the program.

Admission requirements: OSSD, or equivalent, with at least 60% standing in each required subject: English, chemistry, and mathematics year 4; biology year 3, 4, or OAC; physics year 3, 4, or OAC.

Year 3 (Clinical Year): The clinical year is spent in an associated hospital laboratory of the student's choice, where the practical aspect of the program is stressed. Upon successful completion of the program the students write the national qualifying examination of the Canadian Society of Laboratory Technologists for the Registered Technologist (RT). The RT is acceptable anywhere in Canada and also recognized in the U.S.A. and Britain, among other countries.

• Technology

Three-year diploma
Engineering technology (chemical, electronics, environmental, industrial hygiene, mechanical, instrumentation and control).

Additional admission requirements: satisfactory standing in senior level physics and Grade 12 chemistry, English, and mathematics, or equivalent.

Two-year diplomas
Engineering technician (chemical, industrial and commercial refrigeration and airconditioning, instrumentation control, mechanical, mechanical drafting), industrial instrumentation technician, power engineering.

Additional admission requirements: engineering technician (chemical) – satisfactory standing in senior level physics and Grade 12 English, chemistry, and mathematics, or the equivalent; engineering technician (mechanical drafting) – satisfactory standing in senior level physics, Grade 12 English and mathematics, and three drafting credits, or equivalent.

One-year certificate
Process operations program.
This program is specifically designed to prepare secondary school graduates for employment in the process industries. Planned in co-operation with the process industries in Sarnia's "Chemical Valley", this program provides the student with an understanding of the process equipment employed and of the principles of operation involved.

Additional admission requirements: satisfactory standing in senior level physics and Grade 12 chemistry, English, and mathematics, or equivalent.

Note: Students with satisfactory standing in Grade 13 chemistry, English, mathematics (2), and physics may be admitted to the second year of some technology programs, but will be required to take any first-year courses in which they are deficient.

• Co-operative Education
The college offers students the opportunity to gain insight into careers through work or work-like experiences such as field experience, internship, clinical experience, experiential learning, and co-operative education.

The purpose of co-op is to provide students with valuable work experience that will help them find placement upon graduation, provide an opportunity for them to do some career sampling and put the theory learned in the classroom to practical use, and enable them to earn while they learn.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Lambton College offers over 350 credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult college continuing education brochure for details.

Vocational training
A wide variety of programs is offered, including academic upgrading to the equivalent level of Grade 12, clerical and stenographic courses, English as a second language, specialized skill courses, welder fitter, appliance servicing, marine and small engine mechanic, instrumentation mechanic, and the training in business and industry programs. Process operations is also offered in co-operation with the Technology Division.

An industrial day-release program is offered in co-operation with local industry and the Apprenticeship Branch of the Ministry of Colleges and Universities.

Additional Costs
The estimated cost of books, supplies, and instruments for the academic year for postsecondary students ranges from $300 to $600. There is also a $46.80 student activity fee, an $11 registration fee, an $18 graduation fee, and a $14.60 athletic fee. Co-op students in business, technology, parks operation, and services also pay a $50 fee for the co-op term.

Further Information
For further information regarding Lambton College, please contact
Manager of Public Relations
Lambton College of Applied Arts and Technology
1457 London Rd.
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751

Loyalist College of Applied Arts and Technology

Belleville

President: Douglas Auld

Enrolment 1988-89

Full-time	2 175
Part-time	10 523

Loyalist College serves the Quinte region of Ontario, comprising the counties of Hastings, Lennox and Addington, Prince Edward, and Northumberland, except the town of Cobourg and the western townships of Northumberland.

Programs

• Arts and Science – General and Applied

Two-year diplomas
Advertising, agricultural journalism, broadcast journalism, business-marketing, business-sales, developmental services worker, early childhood education, general arts and science, law and security administration, photojournalism, print journalism, radio broadcasting, recreation leadership (leisure services co-ordinator), social service worker, television broadcasting.

Additional admission requirements: early childhood education, law and security administration, photojournalism, recreation leadership, social services worker, radio broadcasting, television broadcasting – applicants may be required to complete a questionnaire, radio broadcasting and broadcast journalism applicants may be required to submit a voice tape. Although interviews are not part of the selection process, applicants are encouraged to attend career counselling sessions.

One-year postdiploma
Direct marketing.

One-year certificate
College vocational program.

Additional admission requirements: a majority of basic level credits for this program of career exploration and hands-on experience.

• Business

Three- and two-year diplomas
Accounting, business administration, data processing, hotel and restaurant management.

Two-year diplomas
Assessment, appraisal and real estate management, office administration (options in medical, legal, executive), travel and tourism.

Additional admission requirements: travel and tourism – questionnaire.

One-year certificate
Office administration, small business office automation (September and February admission).

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: OSSD including credits in Grade 11 or 12 chemistry (general or advanced), Grade 11 or 12 biology or physics (general or advanced), Grades 11 or 12 mathematics (general or advanced), Grades 11 and 12 English (general or advanced). Mature students (19 years of age and over) must have the required credits or equivalent. A bridging option is available for registered nursing assistants who qualify. All applicants are required to complete a questionnaire. (Since this program is usually over-subscribed, applicants are urged to apply before March1).

One-year certificate
Nursing assistant.

Additional admission requirements: OSSD including Grade 11 or 12 general or advanced biology and Grade 12 general or advanced English, completion of questionnaire. Mature students (19 years of age and over) must have the required credits or equivalent.

Certificate of achievement
Health care aide.
This is a 16-week course to prepare persons to function creatively with residents in nursing homes. in homes for the aged, and in similar facilities.

Special admission requirement: Grade 10 (certificate of education) or equivalent, or mature student status.

• Technology

Three-year diplomas (engineering technology)
Architectural, chemical, civil, electronic, mechanical (manufacturing).

Additional admission requirements: Grade 12 general or advanced mathematics and English required; architectural, civil – Grade 11 or 12 physics and drafting credit recommended; chemical, electronic – Grade 11 or 12 physics required, chemistry recommended; mechanical – drafting and machine shop recommended.

Direct access to the second year of the three-year programs may be granted for relevant credits from Grade 13 (or OACs), other community colleges, universities, or other educational institutions at the discretion of the college. Refer to Loyalist's current calendar for specifics. Official transcripts must be provided.

Two-year diplomas (engineering technician)
Architectural, chemical, civil, construction, electronic, resources (environmental), survey.

Additional admission requirements: Grade 12 English and general or advanced mathematics required for all programs; architectural, civil, construction, survey – Grade 11 or 12 general or advanced physics and drafting recommended; electronic – Grade 11 or 12 general or advanced physics required and chemistry recommended; chemical – Grade 11 or 12 general or advanced chemistry and physics recommended; mechanical – machine shop and drafting recommended; resources (environmental) – Grade 11 or 12 biology, chemistry, or environmental science and physics recommended.

One-year certificates (skilled-trades programs)
Chemical laboratory assistant (38 weeks), industrial woodworker (36 weeks), mechanic (industrial manufacturing and processing) (36 weeks). Other skill-training courses may be offered as demand and facilities permit. Consult the college calendar or phone for more information.

Special admission requirements: chemical laboratory assistant – OSSD with Grade 12 general or advanced English and mathematics (technical preferred), Grade 11 or 12 general or advanced chemistry and physics recommended; industrial woodworker, mechanic (industrial manufacturing and processing) – certificate of education (14 credits or equivalent), OSSD preferred.

• Alternative Learning

Academic upgrading
The college offers a testing program to help determine academic standing prior to beginning an upgrading program. Consult the college calendar for details.

Apprenticeship
Loyalist College offers classroom instruction for the apprenticeship programs offered by the Apprenticeship Branch of the Ministry of Colleges and Universities. For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Loyalist College offers many courses, including courses offered in co-operation with business and industry associations, leading to certificates and diplomas. Interest and hobby courses are also offered at the Belleville Campus and at many high schools throughout the four counties served by Loyalist College. See "Continuing Education" in the *General Information on colleges of Applied Arts and Technology* section, and consult the college calendar for details.

Further Information

For further information contact
Admissions Office
Loyalist College of Applied Arts and Technology
Wallbridge-Loyalist Rd.
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 962-9501

Mohawk College of Applied Arts and Technology

Hamilton, Brantford, Stoney Creek

President: Keith L. McIntyre

Enrolment 1988-89

Full-time	6 885
Part-time	50 460

Mohawk College serves much of the industrial heartland of southwestern Ontario, including Hamilton-Wentworth, Brant County, and the Haldimand portion of the Haldimand-Norfolk Region.

Campus locations:
Mohawk College's Fennell Campus is located on Hamilton Mountain. The college operates a Health Sciences Education Centre at the Chedoke Campus in Hamilton and a nursing campus in Brantford. The Brant-Elgin Campus in Brantford and the Saltfleet Campus in Stoney Creek offer adult training programs; however, a number of postsecondary programs have been introduced at the Brant-Elgin and Saltfleet campuses. The Wentworth Campus (Apprenticeship Training) is located in downtown Hamilton, and the English-Language Centre is located on Hamilton Mountain. At Hagersville, in the Haldimand-Norfolk region, Mohawk College operates an Education Information Centre. In conjunction with McMaster, the college operates an Education Information Centre, located in the Hamilton Public Library complex in the heart of the city.

Programs Offered

• Applied Arts and Health Care

Three-year diplomas
Advertising, applied music, child care worker, television broadcasting

Additional admission requirements: Grade 12 general level English, program questionnaire, interview/audition, and/or orientation.

Two-and-one-half to three-year diploma
Nursing.
Upon successful completion of the examinations set by the College of Nurses of Ontario, this program leads to certification as a registered nuse.

Additional admission requirements: good standing in Grades 11 and 12 advanced level English, two Grades 11 and/or 12 advanced level sciences (physics, chemistry, or biology), interview, tests. Applicants with any of these credits at the general level will be considered on an individual basis.

Two-year diplomas
Broadcast journalism, early childhood education, general arts and science, harness horse industry, law and security administration, municipal planning and development, radio broadcasting, recreation leadership, social services worker.

Additional admission requirements: program questionnaire, interview, and orientation; harness horse industry – Grade 12 general level English.

• Business and Communications

Three-year diploma
Business administration (optional third-year specialization in accounting and marketing).

Additional admission requirements: Grades 11 and 12 algebra-based advanced level mathematics or mathematics for technology, Grades 11 and 12 advanced level English, and a minimum of nine additional senior level credits.

Two-year diplomas
Accounting (co-op or non-co-op), general business (co-op or non-co-op), insurance, legal assistant,, marketing (co-op or non-co-op), office administration (executive, legal, medical).

Additional admission requirements: accounting, general business (co-op or non-co-op), insurance, legal assistant marketing (co-op) – Grade 12 general level English and mathematics, ten additional senior level credits; legal assistant – questionnaire and/or interview; office administration (executive, legal, medical) – Grade 12 general level English.

One-year certificate
Medical transcriptionist.

Additional admission requirements: Grade 12 general level English, 45 wpm typing, questionnaire and/or interview.

• Engineering and Health Technology

Three-year diplomas (technology)
Architectural (co-op), chemical engineering (co-op), civil engineering (co-op), computer electronics engineering (co-op), computer systems (co-op), electrical control engineering (co-op), electronics engineering (co-op), energy systems engineering (co-op), industrial management (co-op), mechanical engineering (production and design options, co-op), metallurgy and materials engineering (co-op), transportation engineering (co-op).

Additional admission requirements: Grades 11 and 12 general level English (advanced level advised), Grades 11 and 12 advanced level mathematics or mathematics for technology for all three-year technology programs; chemical, metallurgy, and energy – senior level physics and chemistry; computer electronics, electrical control, electronics – senior level physics; industrial management, mechanical – senior level physics.

Three-year diploma (health)
Medical laboratory technology.
This three-year program leads to a diploma qualifying students to write the General Certificate Examination of the Canadian Society of Laboratory Technologists.

Additional admission requirements: good standing in Grades 11 and 12 advanced level English and mathematics, two advanced level sciences (chemistry and one of biology or physics) in Grade 11 or 12, plus two additional Grade 11 or 12 advanced level courses, interview, and tests. Hospital laboratory visitation (as per Mohawk College listing) is also required prior to interview.

Two-year diplomas (technician)
Architectural (co-op), chemical, civil engineering (co-op), construction engineering (co-op), data processing (micro-computer or mainframe options) (co-op or non-co-op), electrical systems engineering, electronics engineering, industrial engineering, instrumentation, materials testing (co-op), mechanical automation (fluid power).

Additional admission requirements: Grade 12 general level mathematics for technology and English; chemical, materials testing – senior general level physics and chemistry; electrical systems, electronics, fluid power, industrial engineering, instrumentation – general level physics.

Two-year diploma (health)
Radiography.
This program prepares the majority of students for radiographic work in hospital departments.

The academic year consists of eleven months, with one month's holiday. Year 1 constitutes the first year of professional training and may potentially be used as credit toward university studies.

Upon graduation from the program, students will be required to write the CAMRT (Canadian Association of Medical Radiation Technologists) examination in order to become eligible for certification.

Additional admission requirements: good standing in two advanced level mathematics, two advanced level languages (English or French), one advanced level physics, and one of chemistry or biology, all in Grade 11 or 12, plus two other general or advanced level science credits, interview (visit to a radiography department required prior to interview), tests.

One-year postdiploma
Diagnostic ultrasound.

Additional admission requirements: all applicants must be graduates of a minimum two-year paramedical program, *i.e.*, radiography, medical laboratory, or nursing.

• Skills Development

Three-year (co-op)/experiential learning
Fitter welder, industrial electrician, industrial machinist, industrial mechanic, tool and die craftsman.

Additional admission requirements: Grade 12 general level English and mathematics for technology, machine shop specialization recommended, aptitude test.

Two-year diplomas (hospitality management)
Food and beverage management (co-op), travel and tourism.
Additional admission requirements: food and beverage management – Grade 12 general level English and mathematics; travel and tourism – Grade 12 general level English. Program questionnaire and/or orientation for both.

One-year certificates
Parts management and merchandising, stationary engineer (class 4 and 3).
Additional admission requirements: parts management and merchandising – Grade 12 general level English, physics, chemistry, or a technical subject taken at the Grade 11 level or higher, Grade 11 general level mathematics; stationary engineer – Grade 12 general level English and mathematics, Grade 11 or 12 general chemistry and physics.

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Brant-Elgin Campus in Brantford offers the following diploma programs: commercial arts, early childhood education, executive office administration, general business, graphic arts production co-ordinator, law and security administration, Native community care (counselling and development), packaging management and technology. In addition, nursing may be taken at the Brantford General Hospital campus.

Three-year diplomas
Graphic arts production co-ordination, packaging management and technology.
Additional admission requirements: graphic arts – Grade 12 English and mathematics, program questionnaire, colour test; packaging – Grade 12 general level English and mathematics for technology, general or advanced level senior physics and chemistry.

Two-year diplomas
Native community care (counselling and development).
Additional admission requirements: Graphic design – Grade 12 general level English, questionnaire, art test; Native care – Grade 12 general level English, questionnaire.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Co-operative education
In 1987, 27 postsecondary programs were co-op. Students alternate two or three four-month terms of paid work experience with their regular academic semesters.

The Department of Co-operative Education serves as the liaison between students, employers, and the students' academic department. Students within the co-op education program are required to successfully complete a specified number of work terms, receive a satisfactory evaluation from their employer, complete an acceptable work term report, and adhere to all the rules governing Mohawk's co-op education program.
The availability of the co-op system of study is indicated after each program listing.

Experiential learning
Programs are being developed in the experiential learning mode. The college is pursuing the concept of granting credit for competencies acquired in the work field. Several programs have integrated experiential learning components into their curricula. These include: fitter welder, industrial electrician, industrial machinist, industrial mechanic, tool and die craftsman, and data processing.

Short Programs – Adult Training
In addition to regular diploma programs, the college offers a great variety of short programs designed to meet the changing needs of business and industry and to provide upgrading job skills for various segments of the community.
Admission requirements: applicants must be 17 years of age and have been out of school for one year or have an OSSD.

Further Information
For further information on admission requirements and details about programs and facilities, please contact
Registrar or Liaison Department
Mohawk College of Applied Arts and Technology
Fennell Ave. and West 5th
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2000, 575-2115

For information on and application forms for student awards and loans, please contact
Financial Aid Administrator
Division of the Registrar
Mohawk College of Applied Arts and Technology
Fennell Ave. and West 5th
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2133

Niagara College of Applied Arts and Technology

Welland

President: Jacqueline P. Robarts

Enrolment 1988-89

Full-time	3 218
Part-time	29 788

Niagara College is the official bilingual college in Southern Ontario. Bilingual secretary, early childhood education, and tourism are offered as bilingual programs.

Campus locations:
All postsecondary courses are offered at the main campus in Welland, with the exception of:

Horticultural technician, offered at
Horticultural Centre
Ivan D. Buchanan Hall
360 Niagara St.
St. Catharines, Ontario L2M 4W1

Theatre Centre
(Using leased facilities of the Shaw Festival)
Niagara-on-the-Lake, Ontario

Fine Arts
54 Empire St.
Welland, Ontario L3B 2L4

Hotel and restaurant administration, tourism-tours and attractions, *tourisme circuits et attraits touristiques,* and culinary skills, offered at
Tourism/Hospitality Training Centre
5881 Dunn St.
Niagara Falls, Ontario L2G 2N9

Nursing, offered at
Mack Nursing Education Centre
178 Queenston St.
St. Catharines, Ontario L2R 2Z7

Programs Offered

• Arts and Science – General and Applied

Three-year diploma
Broadcasting – radio and television.
Additional admission requirements: questionnaire, interview.

Two-year diplomas
Early childhood education/*éducation des petits* (bilingual), educational resources and special needs, fashion arts, general college, general college (fine arts option), horticultural technician, human relations, interior design, journalism-print, law and security administration, social service worker.
Additional admission requirements: early childhood education, social service worker, educational resources and special needs – interview, questionnaire; law and security

administration – questionnaire, orientation session.

Two-year diploma (third year optional)
Theatre arts.

One-year certificate.
College vocational.
Additional admission requirements: interview.

One-year postdiplomas
Early childhood education resource teacher (postbasic).
Additional admission requirements: 2 years' related experience, pre-admission information form, orientation session.

• Business

Three-year diplomas
Business administration – also offered as January start – (second- and third-year specialization in accounting (co-op and non-co-op), human resources management (co-op), information systems, marketing management (co-op), operations management (co-op)), hotel and restaurant administration (co-op).
Additional admission requirements: business administration, hotel and restaurant administration – Grade 12 English and mathematics, with 60% at the advanced level or 70% at the general level.

Two-year diplomas
Computer-accounting applications, computer programmer (co-op), business – accounting (co-op and traditional), business – sales (business programs also offered starting in January), culinary skills (co-op), legal assistant (co-op), office administration/ *administration de bureau (programme bilingue d'education),* retail management (co-op), tourism – tours and attractions (co-op), *tourisme – circuits et attraits touristiques* (bilingual) (co-op).
Additional admission requirements: culinary skills – orientation session.

One-year certificates
Office administration, technical sales.
Additional admission requirements: office administration – typing speed 40 wpm; technical sales – successful completion of 2 years' university or CAAT, or OSSD plus journeyman status in a recognized trade (MIT), or mature student with related work experience.

• Health Sciences

Three-year diploma
Nursing.
Additional admission requirements: two general level science credits (Grade 12 chemistry and either Grade 11 or 12 biology or physics), written autobiographical sketch, orientation session, college medical report before registration. Applicants must have a minimum of 60% at the advanced level or 70% at the general level in sciences.

Two-year diplomas
Dental hygiene (one year following a one-year certificate program), health records technician.
Additional admission requirements: dental hygiene – Grade 12 English, senior level biology with 60% at the advanced level or 70% at the general level, senior level chemistry and/or physics, ability to demonstrate skill in radiographic techniques, one year of related experience, CPR certificate, satisfactory health exam if accepted into program, questionnaire, test; health records technician – interview, 25 wpm typing, questionnaire.

One-year certificates
Ambulance and emergency care, dental assistant, health records, health sciences preparatory, medical transcriptionist.
Additional admission requirements: ambulance and emergency care – two senior level sciences (preferably chemistry and biology), an Ontario Class "F" driver's license, a standard First Aid certificate and a Basic Rescuer in Cardiopulmonary Resuscitation (CPR) certificate issued by the Canadian Heart Foundation, orientation session and personal interview, physical fitness test, questionnaire; dental assistant – Grade 12 English, Grade 11 or 12 biology, Grade 12 chemistry with 60% at the advanced level or 70% at the general level in the two sciences, completion of a pre-information sheet sent by the Admissions Office, CPR certificate, proof of having visited a dental office to learn more about this career; health records, medical transcriptionist – 40 wpm typing, interview, questionnaire.

• Technology

Four-year diplomas
Manufacturing engineering (co-op), mechanical engineering (co-op).
Additional admission requirements: manufacturing – Grade 12 mathematics, senior physics; mechanical – Grade 11 physics and Grade 12 mathematics, with a minimuym of 60% at the advanced level or 70% at the general level.

Three-year diplomas (technology)
Architecture, computer engineering, construction engineering, electrical engineering (power systems), electronics engineering, manufacturing engineering (co-op), mechanical engineering (co-op).
Additional admission requirements: architecture, construction engineering – Grade 12 mathematics; computer, electrical, electronics – Grade 11 physics and Grade 12 mathematics, with a minimum of 60% at the advanced level or 70% at the general level.

Two-year diplomas (technician)
Electrical engineering, electronics engineering, horticultural technician, industrial engineering technician – quality control (non-semestered), stationary engineering 3rd class.
Additional admission requirements: Grade 12 mathematics; industrial engineering technician – quality control – senior English, mathematics, physics; stationary engineering 3rd class – senior mathematics and physics.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. For further details, consult the college calendar.

Adult training
Programs offered in adult training are designed to meet the changing demands of business and industry and provide a learning situation whereby persons may be prepared for upward job mobility or entrance to other levels of learning. Contact the college for information on programs offered.
Admission requirements: Applicants must be 17 years of age and out of school for one year or have an OSSD. Please refer to the college calendar for additional admission requirements.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
The college offers a wide variety of both credit and non-credit courses in Welland, St. Catharines, Niagara Falls, and smaller centres throughout the Niagara Region. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar for details.

Further Information
Please address inquiries about admission requirements and specific programs to
Admissions Officer
Niagara College of Applied Arts and Technology
Woodlawn Rd. P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 542

Northern College of Applied Arts and Technology

Haileybury, Kapuskasing, Kirkland Lake, Moosonee, South Porcupine (Timmins)

President: R.J. Gervais

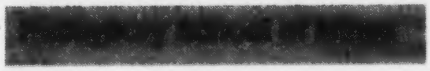
Enrolment 1988-89

Full-time	1 273
Part-time	7 521

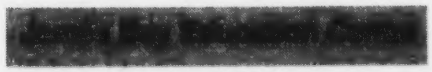
Northern College has five campuses, each near a major centre in northeastern Ontario.

The Haileybury School of Mines is located in the town of Haileybury, overlooking Lake Temiskaming. The James Bay Education Centre is located in Moosonee. The Kapuskasing Campus is located in the city of Kapuskasing. The Kirkland Lake Campus is located in the city of Kirkland Lake, 48 kilometres west of the Quebec border and 600 kilometres north of Toronto. The Porcupine Campus is located on Lake Porcupine, in a suburb of Timmins.

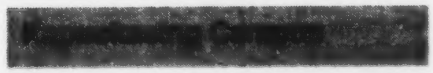
Campus Program Specializations



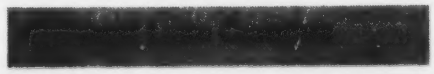
At Haileybury, students may choose from a broad range of mining specializations: mining technology (a broad curriculum integrating geology, mining, and metallurgy), industrial instrumentation (process measurement and control), and mine maintenance technology.



The James Bay Education Centre was originally designed as an experiment in frontier schooling and is now emerging as a Native education centre for the peoples of the James and Hudson bays. It contains a gym, library, workshops, classrooms, day care centre, and cafeteria.



The Kapuskasing Campus offers primarily business postsecondary programs, adult training, and continuing education programs: bilingual office administration, business administration (French and English), nursing (bilingual and English), office administration (French and English). The Kapuskasing Campus is the centre for distance-learning programs.



The campus's emphasis is on technological programs: civil technician and technology, computer process control (postdiploma program for electronics technicians), computer science technology, data processing, electronics technician and technology, electrical technology, general and business administration (French and English), mechanical technician and technology, nursing, office administration/word processing (French and English), and welding engineering technician/technology.

The Porcupine Campus has the most varied program offerings of the campuses, with programs in applied arts, technology, business, and nursing. Program specializations include the following: architectural technician and technology, bilingual office administration, business administration (French and English), child care (French and English), developmental services worker (French and English), early childhood education (French and English), electrical technician, electronics technician, fine arts and crafts, Native drug and alcohol abuse counsellor, Native recreation worker, Native social services worker, nursing, nursing assistant (bilingual and English), office administration (medical, legal, executive) (French and English), social services (French and English), and surveying technician and technology. Facilities to accommodate these programs include studios for sculpting, pottery, drawing, and painting; a well-equipped weaving room; a photographic studio and lab; and a day care centre, The Northern Caboose. The Porcupine Campus is also the administrative centre for the college.

Programs Offered

• Arts and Sciences – General and Applied

Three-year diploma
Child care worker (French and English).

Two-year diplomas
Developmental services worker (French and English), early childhood education (French and English), fine arts and crafts, general vocational, Native drug and alcohol abuse counsellor, Native recreation worker, Native social services worker, social services worker (French and English).

One-year certificate
College vocational program, general vocational preparatory, Native core program, special constable.

• Business

Three-year diplomas
Business administration (accounting, general, marketing; options in French and English), data processing.

Two-year diplomas
Accounting and marketing, business (accounting), business (French and English), office administration (general, medical, legal, word processing).

One-year certificates
Office administration.

• Health Sciences

Nursing.
Nursing is a two-and-one-half-year program at the Kirkland Lake Campus and a three-year program at the Porcupine, Kapuskasing, and James Bay Education Centre campuses.

One-year certificate
Nursing assistant.

• Technology

Three-year technology diplomas
Architectural, civil, computer science, electrical, electronics, mechanical, mine maintenance, mining engineering, survey, welding.

Two-year technician diplomas
Architectural, civil, electrical, electronics, industrial instrumentation, mechanical, mine maintenance, mining engineering, survey, welding (inspection).

One-year certificate
Computer process control, mineral exploration assistant.

• Alternative Learning

Academic upgrading
Northern offers upgrading programs in both English and French. For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the college for details.

Adult training
The college offers modularized business and commerce skill programs that may lead to certification, as well as offering commercial refresher and technical skill programs. Contact the college for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Credit and non-credit courses are offered at all five campuses and in eight satellite centres in northeastern Ontario.

See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar, "Special Programs Division", for details.

Management Development
More than 60 courses specifically tailored to meet the professional development needs

of management are available through the Special Programs Division. Several of these courses are also available in French. The department provides a consulting and referral service to help identify business and industry needs for training programs at the supervisory level. A brochure on the Management Development Program is available.

Modular Training
This is a co-operative effort between the college and the Apprenticeship Branch of the Ministry of Colleges and Universities. The program centres on the modular training package for stationary engineers, first to fourth class.

Training in Business and Industry
The purpose of this program is to work with employees who wish to be upgraded and, in some instances, retrained on the job to increase their employability and flexibility. Arrangements for registration may be made by management, staff organization, unions, or other groups of employees interested in this type of training. Detailed information is available from the Special Programs Division.

Further Information
Dean of Student Services
Porcupine Campus, Northern College
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211

Student Services Department
Haileybury School of Mines, Northern College
640 Latchford
Haileybury, Ontario P0J 1K0
Telephone (705) 672-3376

Student Services Department Kapuskasing Campus
Northern College
3 Aurora Ave.
Kapuskasing, Ontario P5N 2Y3
Telephone (705) 335-8504

Student Services Department
James Bay Education Centre
Northern College
P.O. Box 30, First St.
Moosonee, Ontario P0L 1Y0
Telephone (705) 336-2913

Student Services Department
Kirkland Lake Campus, Northern College
140 Government Rd. E.
Kirkland Lake, Ontario P2N 3L8
Telephone (705) 567-9291

Special Programs Division
Northern College
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211

St. Clair College of Applied Arts and Technology

Windsor, Chatham

President: A. L. Martin

Enrolment 1988-89

Full-time	3 740
Part-time	41 307

St. Clair College has centres in Windsor and Chatham. The centres in Windsor are the main or South Campus, housing postsecondary, adult training, English as a second language, apprenticeship, and continuing education programs for both Windsor and Essex County; the Community Career Counselling Services, providing career information and counselling to those seeking jobs; and the Industrial Resource Centre, containing the metal-cutting trades programs. The Thames Campus in Chatham features the developmental services worker program, which is not available in Windsor. Also offered in Chatham are various postsecondary programs, continuing education courses, and adult training programs.

Campus locations:

South Campus
2000 Talbot Rd. W.
Windsor, Ontario
N9A 6S4

Thames Campus
1001 Grand Ave. W.
Chatham, Ontario
N7M 5W4

Community Career Counselling Services
245 Janette Ave.
Windsor, Ontario
N9A 4Z2

Industrial Resource Centre
3600 Rhodes Drive
Windsor, Ontario
N8W 5A4

Programs Offered

• Arts and Science – General and Applied

Six-semester programs
Advertising (business), journalism (print), sign language interpreter.
Additional admission requirements: advertising – Grade 12 English, and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level; journalism – Grade 12 English with at least 60% at the advanced level or 70% at the general level; sign language interpreter – Grade 12 English with at least 60% at the advanced level or 70% at the general level.

Four-semester programs
Commercial art, early childhood education, interior design, law and security administration, legal office administration, sign language communicator, travel counsellor.
Additional admission requirements: commercial art – one credit in art or equivalent and portfolio; early childhood education – Grade 12 English with a minimum of 60% at the advanced level or 70% at the general level, courses in social sciences (i.e., family studies, history, etc.) recommended, visit to a day care centre and completion of a questionnaire, ten best senior level courses (two of which must be English) will be averaged and ranked, general level courses will be given a weighting of 0.9 and advanced level courses a weighting of 1.0, certificate of good health and immunization records; interior design – credits in art and drafting recommended; law and security administration – Grade 12 English with at least 60% at the advanced level or 70% at the general level, questionnaire; legal office administration – Grade 12 English with at least 60% at the advanced level or 70% at the general level; sign language communicator – Grade 12 English with at least 60% at the advanced level or 70% at the general level, questionnaire to determine knowledge of the program and the deaf community; travel counsellor – Grade 12 English with at least 60% at the advanced level or 70% at the general level, written report following a visit to a travel agency.

Two-semester program (postdiploma)
Sign language interpreter.
Additional admission requirements: successful completion of sign language communicator program, questionnaire to determine knowledge of the deaf community, grade of B or better in ASL and English.

• Business

Six-semester program
Business administration (accounting, marketing), information systems (computer programmer analyst).
Additional admission requirements: Grade 12 English and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics for technology or advanced level mathematics recommended.

Four-semester programs
Business (accounting, entrepreneurship, international business, information systems – microcomputer systems management, retail management), office administration (executive, legal, medical, word processing).
Additional admission requirements: business – Grade 12 English and Grade 10 mathematics with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics for technology or advanced mathematics recommended; office administration (executive, medical) – for direct entry to year 2, successful completion of the two-semester office administration program, Grade 12 English with at least 60% at the advanced level or 70% at the general level or 45 wpm typing, 60 wpm Pitman shorthand/shorterhand or Forkner shorthand (shorthand not required for direct entry into office administration – medical);

office administration–word processing – Grade 12 English and Grade 10 mathematics with a minimum of 60% at the advanced level or 70% at the general level, 35 wpm typing.

Two-semester program
Office administation (general).
Additional admission requirements: Grade 12 English with at least 60% at the advanced level or 70% at the general level.

• Health Sciences

Nine-semester program (three years)
Child and youth worker (part-time).
Additional admission requirements: child and youth worker – Grade 12 English and Grade 10 mathematics with a minimum of 60% at the advanced level or 70% at the general level, questionnaire.

Six-semester programs
Medical laboratory technology, nursing.
Additional admission requirements: medical laboratory technology – Grade 12 mathematics and English, senior level physics and chemistry, with at least 60% at the advanced level or 70% at the general level (advanced level courses in these subjects strongly recommended), written report following a day of observation in a medical laboratory, senior level biology recommended, nursing – Grade 12 English, Grade 11 mathematics, and two different senior sciences including biology, with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics will be required for September 1990, first aid recommended, CPR recommended, and studies in the metric system recommended, certificate of good health required if accepted into the program.

Four-semester program
Animal health technician, dental hygiene.
Additional admission requirements: animal health technician – Grade 12 English, Grade 11 mathematics for technology or advanced level mathematics, senior level biology and chemistry with at least 60% at the advanced level or 70% at the general level, questionnaire, experience in veterinary hospital recommended, visit to college to interview faculty and inspect program, interview with a graduate of the program; dental hygiene – successful completion of a CAAT dental assistant program or equivalent recognized by the Canadian Dental Association, with an overall Grade of at least "B" (75% or GPA of 3.00), applicants with training outside of Ontario CAATs must write a comprehensive dental assistant exam and submit proof of successful completion of the radiation protection course, one year of work experience as a dental assistant practising four-handed dentistry.

Three-semester programs
Ambulance and emergency care, nursing assistant.
Additional admission requirements: ambulance and emergency care – Grade 10 mathematics recommended, applicants with senior level biology, basic cardiac life support course (CPR), current standard first aid certificate, and an Ontario class "F" driver's licence will benefit in the selection process, questionnaire, following acceptance into the program, health record, immunization record, licence, and a written report after observational experience of several days in an ambulance service are required (details provided at time of acceptance); nursing assistant – Grades 9 and 10 science and English and Grade 9 mathematics required, senior level biology, first aid certificate, and CPR recommended, questionnaire, certificate of good health required if accepted in the program (September and January intake).

Two-semester programs
Dental assistant, pharmacy assistant.
Additional admission requirements: dental assistant – Grade 12 English and senior level biology with at least 60% at the advanced level or 70% at the general level, questionnaire, day of observation in a dental office (details provided after receipt of application), senior level chemistry and typing recommended; pharmacy assistant – minimum of Grade 12 mathematics, senior level chemistry and biology, written report after a half-day visit to a pharmacy (details provided after receipt of application).

One-semester program
Health care aide.
Additional admission requirements: current standard first aid certificate and basic cardiac life support course (CPR) recommended.

• Technology

Six-semester programs (technology)
Architectural, chemical and environmental engineering, civil engineering, electrical/electronics engineering, industrial engineering, mechanical engineering (energy management).
Additional admission requirements: architectural, civil – recommend Grade 12 mathematics for technology or advanced level mathematics, Grade 12 English, senior level physics (students without the above may be assigned additional course work that could extend beyond the normal academic year, advanced standing for Grade 13 or OACs may be allowed); chemical and environmental engineering, electrical/electronics engineering, mechanical engineering, mechanical engineering (energy management) – recommend Grade 12 mathematics for technology or advanced mathematics, Grade 12 English, senior level physics and chemistry (students without high school physics will be required to take PHO1O, fundamentals of physics, at night school during their first semester), direct entry to year 2 of the chemical and environmental engineering program may be granted to students with an OSSHGD or OACs or equivalent in English, physics, chemistry, calculus, functions and relations, or algebra. Applicants to electrical/electronics and mechanical with an OSSHGD or OACs or equivalent in English, physics, chemistry, calculus, functions and relations, and calculus or algebra may be given sufficient credits to begin the program in semester two (January rather than September), pending space availability.

Four-semester programs (technician)
Construction engineering (civil), electronics, food (service management), furniture products, interior design, landscape, model/pattern maker, motive power, mouldmaking, toolmaking.
Additional admission requirements: construction engineering (civil), electronics – recommend Grade 12 English and Grade 12 mathematics for technology or advanced mathematics, senior level physics (students without senior level physics will be required to take PHO1O, fundamentals of physics, at night school during their first semester); furniture products – credits in art and shop recommended, graduates with OSSD/OSSGD at the basic level will be considered; interior design – credits in art and drafting recommended; landscape – graduates with OSSD/OSSGD at the basic level will be considered; motive power – Grade 12 mathematics for technology or advanced level mathematics required, credits in physics, chemistry and communications recommended; mouldmaking, toolmaking – Grade 12 mathematics for technology or advanced level mathematics required, blueprint, drafting, and machine shop strongly recommended. Students who have completed St.Clair's machine shop program or the high school linkage machine shop program may be eligible for direct entry to year 2.

Three-semester program
Hairstylist/cosmetology.
Additional admission requirements: aptitude test.

Two-semester programs
Furniture products techniques, landscape techniques, machine shop, repairperson electronic equipment.
Additional admission requirements: furniture products techniques – credits in art and shop recommended, graduates with OSSD/OSSGD at the basic level will be considered; machine shop – Grade 12 mathematics for technology or advanced mathematics required, credits in blueprint, drafting, and machine shop strongly recommended; repairperson electronic equipment – Grade 12 mathematics for technology or advanced level mathematics recommended.

Forty-week program
Food preparation (basic and advanced).

dditional admission requirements:
SSD/OSSGD graduates at the basic level
ill be considered, certificate of good health
equired if accepted in the program.

[redacted]

rograms Offered

Business

ix-semester program
usiness administration.
Additional admission requirements:
rade 12 English with at least 60% at the
dvanced level or 70% at the general level,
rade 10 mathematics for technology or
dvanced level mathematics, direct entry to
ear 3 may be granted to applicants with a
AAT business diploma.

our-semester programs
usiness (accounting, information systems,
arketing), early childhood education, office
dministration (executive, medical).
Additional admission requirements:
usiness (accounting, information systems,
arketing) – Grade 12 English with at least
0% at the advanced level or 70% at the
eneral level, Grade 10 mathematics for
chnology or advanced level mathematics
commended; early childhood education –
rade 12 English with 60% at the advanced
vel or 70% at the general level, courses in
ocial sciences recommended, ten best
nior level courses (two of which must be
nglish) will be averaged and ranked,
rtificate of good health and immunization
cord required; office administration (execu-
e, medical) – Grade 12 English with 60%
the advanced level or 70% at the general
vel, for direct entry to year 2 successful
mpletion of the two-semester office
dministration (general) program or 45 wpm
ping, 60 wpm Pitman shorthand/shorter-
nd or Forkner shorthand, shorthand not
quired for direct entry to office administra-
n (medical), for executive option short-
nd not required for those taking machine
nscription option.

fty-two-week program
fice information administration.
Additional admission requirements:
ade 12 English with at least 60% at the
vanced level or 70% at the general level,
sic 20 wpm keyboarding skills required for
onsored students.

wo-semester programs
fice administration (general), systems
alyst (postdiploma).
Additional admission requirements: office
ministration (general) – Grade 12 English
h at least 60% at the advanced level or
% at the general level; systems analyst –
o-year college business diploma (account-
or computer major) or equivalent, or
ceptable business experience.

• Health Sciences

Six-semester programs
Developmental services worker, nursing.
Additional admission requirements:
developmental services worker – current standard (basic) first-aid certificate and volunteer work in this field highly recommended; nursing – Grade 12 English, Grade 11 mathematics, and two different senior level sciences, one of which must be biology and the other physics or chemistry with at least 60% at the advanced level or 70% at the general level, Grade 12 mathematics will be required for September 1990, first aid, CPR, and studies in the metric system recommended, certificate of good health required if accepted into the program.

Three-semester program
Nursing assistant.
Additional admission requirements: Grades 9 and 10 science and English and Grade 9 mathematics required, senior level biology, first aid certificate, and CPR recommended, certificate of good health required if accepted into the program. January intake only.

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Programs Offered

• Skill Programs

Four-semester and 64-week non-semestered programs.
Heating refrigeration and air conditioning, power engineering.
Additional admission requirements:
heating refrigeration and air conditioning – recommend four credits in English (one at the Grade 12 level), four credits in mathematics (one at the Grade 12 level) (preferably mathematics for technology or advanced level mathematics), and senior level physics; power engineering – OSSD/OSSGD at the general level or mature student status or equivalent.

48-week programs
Industrial general machinist, industrial maintenance mechanic.
Additional admission requirements:
industrial general machinist – recommend four credits in English (one at the Grade 12 level), four credits in mathematics (one at the Grade 12 level, preferably mathematics for technology or advanced level mathematics), and senior level physics.

40-week programs
Machine shop (basic).
Additional admission requirements: Grade 10 mathematics.

• Alternative Learning

Academic upgrading
Courses in academic upgrading are offered at the Windsor and Chatham campuses.
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

Adult training
St. Clair offers skill programs for adults in Windsor and Chatham. Contact the college for further information.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
The college offers over 1200 courses on a variety of subjects at both the Windsor and Chatham campuses, as well as in smaller centres throughout Essex and Kent counties. Courses are offered four times per year, including during the summer. See "Continuing Education" in the IGeneral Information on Colleges of Applied Arts and Technology section and contact the college for details.

Further Information

For additional information please contact
Admissions Office
St. Clair College of Applied Arts and Technology
2000 Talbot Rd. W.
Windsor, Ontario N9A 6S4
Telephone (519) 972-2727
or
Thames Campus
1001 Grand Ave. W.
Chatham, Ontario N7M 5W4
Telephone (519) 354-910

St. Lawrence College Saint-Laurent

Brockville, Cornwall, Kingston

President: W. William Cruden

Tri-campus Enrolment 1988-89

Full-time	4 060
Part-time	20 119

St. Lawrence College Saint-Laurent has campuses in Kingston, Brockville, and Cornwall. The Cornwall campus is officially designated bilingual and offers courses in both official languages.

St. Lawrence College Saint-Laurent, Brockville

Principal: J.M. Butt

Enrolment 1988-89

Full-time	746
Part-time	5 752

• Arts and Science – General and Applied

Four semesters – two calendar years
Child and youth worker, developmental services worker, general arts and science.

• Business

Six semesters – three calendar years
Business administration (options in finance and marketing – common first two semesters, September start and February start to accommodate semestered secondary schools).

Four semesters – two calendar years
Hotel and restaurant management (co-op option).

Two semesters – one calendar year
Hospitality services worker, office systems operations.

• Health sciences

Six semesters – two-and-one-half calendar years
Nursing.
September start and February start to accommodate semestered schools.

Nine semesters
Nursing (part-time).
Additional admission requirements: two different senior science credits including biology, physics, or chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at year 4 at the general level. The student's physical and mental health must be such that the requirements of the program can be met; medical certificate is required.

Two semesters – one calendar year
Nursing assistant.

• Technology

Six semesters – three calendar years
Business technology – information/communications systems, electrical engineering technology – power systems.
Additional admission requirements: year 4 English and mathematics for technology.

• Short Programs
Basic employment training, basic training for skill development (levels 3 and 4), computer literacy – business and industry, English as a second language, French as a second language, health care aide, home support, registered nurse – management skills, registered nurse – critical care, registered nursing assistant psychiatric nursing, working with the aged – multidiscipline (postcertificate).

• Alternative Learning

Academic Upgrading
See "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Assessment for Credit
ALEC – Assessment of Learning Experience for Credit – life experiences can earn college credits; contact Student Services for details.

Continuing Education
The Brockville Campus offers a variety of credit courses during the evening or day in business, creative arts, developmental education, health science, human studies, technology, and trades areas. Contact the Registrar for details.

Ontario Skills Development Offices
These offices develop and present training for all levels of business and industry anywhere in Ontario.

CEIC Programs
A variety of programs are conducted under the sponsorship of the Canada Employment and Immigration Commission (CEIC). Some of these programs have been listed under the *Short Programs* section above. For complete listings, contact the registrar.

Further Information
For more information, please contact
Registrar
St. Lawrence College Saint-Laurent, Brockville
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

St. Lawrence College Saint-Laurent, Cornwall

Principal: A.L. Martin

Enrolment 1988-89

Full-time	963
Part-time	5 137

• Arts and Science – General and Appli

Six semesters – three calendar years
Visual and creative arts – graphic design.

Four semesters – two calendar years
General arts and science – offered in English and bilingual.

• Business

Six semesters – three calendar years
Business administration, common first two semesters (options in data processing and management offered bilingually, finance also offered in French), all are available as co-operative programs.
Additional admission requirements: sev English credit at the general or advanced level, for bilingual programs either two senior credits in *français* or one senior cre in English and one senior credit in *françai* (at least one of these must be a year 4 or credit and both must be at the general or vanced level), for unilingual French progra two senior credits in *français* (at least one these must be year 4 or 5 credit and both must be at the general or advanced level) Recommended for all business courses: senior credit in math at the advanced leve for instruction in French, a year 4 *françai* credit at the advanced level.

Four semesters – two calendar years
Appraisal (common two semesters with b ness and business administration), busin offered bilingually, business (accounting) offered in English and French; office administration (executive, legal, and bilingua options) (common first two semesters).
Additional admission information: appraisal, business – same as for six-semester program; office administration – senior English credit at the general or advanced level, for the bilingual program two and senior credits in *français* (at the general or advanced level, and at least o must be a year 4 or year 5 credit), recom mended for the English programs a senio level English credit at the advanced level for the bilingual program a senior level *français* credit at the advanced level, advanced credits may be granted to those show proof (to the satisfaction of the inst tor) of basic typing skill, shorthand, office procedures, accounting, or communicati

• Health Sciences

Six semesters – two-and-one-half calend years
Nursing – also offered in French.

Additional admission requirements: two different senior science credits including biology, physics, or chemistry at the advanced level, two senior English credits at the advanced level, including one credit at year 4 or 5, one credit in mathematics at the year 4 general level. Note: one senior *français* credit may be substituted for one of the English credits. For the French program: same science and mathematics requirements as the English program and two senior *français* credits at the advanced level, including one in year 4 or 5. For both English and French nursing programs: where further differentiation among qualified candidates is necessary, it will be based on the college's assessment of each candidate's probability of success in the program. This assessment will be based upon the present level of academic achievement in communications, math, and science, as determined by college-administered tests and standardized ability tests. There are also health and administrative requirements. Contact the college for more information.

Four semesters – two calendar years
Behavioural science technician – also offered bilingually.
Additional admission requirements: bilingual program requires two credits in *français* or one in *français* and one in English. These credits must be at the senior level, with at least one being a year 4 or year 5 credit. Applicants must be able to demonstrate a working knowledge of both official languages. Where further differentiation among qualified candidates for a particular program is necessary, it will be based on the college's assessment of each candidate's relative probability of success in the program, based on one or more of the following as approved by the academic council: credits already earned toward program completion, present level of academic achievement generally, present level of academic achievement in disignated prerequisitie subject area,standardized testing, and related practical/life experience.

One semester
Health care aide (16 weeks), home support (12 weeks).
Additional admission requirements: health care aide – certificate of education (year 2, 14 credits) at the general or advanced level, recommended that applicants be employed as aides in a health agency, have clinical experience and employer's recommendation; home support – reading, writing, and math ability will be assessed.

• Technology

Six semesters – three calendar years
Electronics engineering technology, marine engineering technology, mechanical engineering technology, microcomputer engineering technology; co-operative education available in microcomputer, marine and electronics engineering technology.

Four semesters – two calendar years/64 weeks
Computer engineering technician, process control and electronics engineering technician.
Additional admission requirements: six semesters – year 4 mathematics for technology or equivalent, recommended background of mathematics and English at the advanced level and a senior science (physics preferred) or a senior technological studies credit at the general or advanced level; four semesters – recommended background of senior science credit (physics preferred), a senior technological studies credit at the general level.

Short Programs
Carpenter, fabricating and welding, food preparation, industrial maintenance mechanic, machine shop, motor vehicle mechanic, women into trades and technology (WITT).

• Alternative Learning

TRAC
A modularized, self-paced learning system for fabricating and welding, industrial maintenance, and machine shop. Monthly entry.

Career basics
General arts and science (four semesters); short programs: career planning for women, Path re-entry program for careers in new technology, basic employment training.

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

Pre-employment programs
Contact the college for information.

Further Information
For more information, please contact
Admissions Office
St. Lawrence College Saint-Laurent, Cornwall
Windmill Point
Cornwall, Ontario K6H 4Z1
Telephone (613) 933-6080 ext. 2178

St. Lawrence College Saint-Laurent, Kingston

Principal: G.K. Welch

Enrolment 1988-89

Full-time	2 160
Part-time	6 594

• Arts and Science – General and Applied

Six semesters – three calendar years
Animal care technology, behavioural science technology, child care worker, fashion merchandising, visual and creative arts (fashion design), visual and creative arts (graphic design).
Additional admission requirements: animal care technology – year 4 advanced credits in mathematics, chemistry, and English, plus one of either biology or physics at the advanced level in year 3 or higher.

Four semesters – two calendar years
Correctional worker, early childhood education, general arts and science, visual and creative arts – fine arts.

• Business

Six semesters – three calendar years
Business administration (options in data processing, finance, human resources management, and marketing), fashion merchandising.
Additional admission requirements: senior English credit at the general or advanced level, year 4 general level mathematics or equivalent recommended; business administration (data processing), finance and marketing – year 4 advanced level mathematics and English recommended.

Five semesters – two calendar years
Recreational marine management.

Four semesters – two calendar years/64 weeks
Business (options in advertising and public relations, accounting, marketing, legal assistant, human resources management), computer programmer, office administration (legal, medical, executive, general options).
Additional admission requirements: business (advertising and public relations, legal assistant) – year 4 general level English; office administration – senior English credit at the general or advanced level.

Two semesters – one calendar year
Office systems operations.
Additional admission requirements: 40 wpm typing.

• Health Sciences

Eight semesters – three years
Medical laboratory technology.

Additional admission requirements: credits for mathematics, chemistry, and English at the advanced level in year 4 or better; credit for biology or physics at the advanced level in year 3 or better.

Six semesters – two-and-a-half calendar years
Nursing.

Additional admission requirements: two senior science credits including biology, physics, or chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at year 4 at the general level.

Three semesters – one calendar year
Nursing assistant.

• Technology
Six semesters – three calendar years
Civil engineering technology, computer engineering technology, electronics engineering technology, instrumentation engineering technology (industrial), mechancial engineering technology.

Additional admission requirements: year 4 general level mathematics and English, year 3 science credit; computer engineering technology – year 4 advanced level mathematics.

Four semesters – two calendar years/64 weeks
Mechanical engineering technician (machining), electronics engineering technician, instrumentation engineering technician (industrial).

Additional admission requirements: year 4 general level mathematics and English, year 3 science credit.

• Short Programs
Short programs offered include: basic employment training, basic food preparation, basic training for skill development – levels 2 to 4, English as a second language, health care aide, industrial maintenance mechanic, introduction to non-traditional occupations, life skills coach, machine shop, PATH: a re-entry program into highly skilled careers, registered nursing assistant – psychiatric nursing.

• Alternative Learning
Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
St. Lawrence College Saint-Laurent, Kingston offers a wide range of day and evening courses, including courses leading to college diplomas or certificates, advanced courses in technical and business fields for professional associations, and general interest courses, both leisure and career related. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

Pre-employment programs
Consult the college calendar for details.

Community Learning Centre
Individualized programs of study are available in a wide range of careers in business and technology. Courses cover specific trade materials: building systems management, stationary engineering, industrial maintenance mechanics, electrical/electronics, drafting, welding, mathematics and physics upgrading, and first-year college courses in mathematics, physics, mechanics, drafting, electronics, computing, and accounting. The format is take-home study materials, with tutorial assistance and testing at the college. Students can start any day of the week and progress at their own pace. A tutor is available to give individual help as required.

Further Information
For more information, please contact
Registrar
St. Lawrence College Saint-Laurent
King & Portsmouth
Kingston, Ontario K7L 5A6
Telephone (613) 544-5400

La Cité collégiale
(Continued from page 39)

Certificate Programs – Ottawa
Administration de bureau – secrétariat général, aide en soins de santé, aide familiale, bureau d'accueil et réception, cours préparatoire à la formation professionnelle (niveau I à IV), cuisine commerciale, entretien d'appareils de chauffage, de réfrigération et de climatisation, fleuriste, formation préparatoire à l'emploi, lattage, le mourant et la relation d'aide – multidisciplinaire, mécanicien-monteur (industrie) opération d'ordinateurs, opérateur de machine de traitement de textes, perfectionnement commercial, protection et sécurité, retour au travail, secours ambulancier, service de boissons, soins dentaires, soins infirmiers auxiliaires, soins palliatifs – multidisciplinaire, soudage et assemblage, traitement de textes, vente au détail.

Certificate Programs – Cornwall
Aide en soins de santé

See diploma programs on page 39 (La Cité).

Further Information
For general information: (613) 744-5050

For Information on Programs:
Call toll free at 1-800-267-CITÉ (2483).
Local calls: Ottawa 746-CITÉ (2483);
Cornwall 938-CITÉ (2483).

Sault College of Applied Arts and Technology

Sault Ste. Marie

President: P.R. Doyle

Enrolment 1988-89

Full-time	1 475
Part-time	8 876

Sault College's concern for the natural resources of the environment is reflected i its college programs. The college also has strong technology, business, applied arts, and health sciences programs covering wide areas of interest.

The Continuing Education departments the college offer a wide range of courses, not only at the main Sault Ste. Marie Campus, but also at the college's satellite campuses in Elliot Lake and Wawa. Through these campuses, many other locations throughout the District of Algoma and state of Michigan receive programming.

Campus locations:

Sault College
Main Campus
443 Northern Ave.
Sault Ste. Marie,
Ontario
P6A 5L3
(705) 949-2050
Toll-free 1-800-461-2260

North Algoma
Campus
3 Maple St.
P.O. Box 1490
Wawa, Ontario
T0S 1K0
(705) 856-2347

Elliot Lake and North Shore Campus
1 College Place
Elliot Lake, Ontario
P5A 3G9
(705) 848-2285

Programs Offered

• Arts and Sciences – General and Applied

Three-year diplomas
Advertising art and graphic design, child a youth worker.

Additional admission requirements: advertising art and graphic design – applicants will be ranked according to a three-step process: two letters of referenc a three-part art evaluation, and a short essay (details available from the registrar) child and youth worker – two senior level cial science courses, applicant must atten an information session, submit two letters reference and certificate of good health, participate in group interview (all requirements must be met before final admission mature applicants will be assessed on an individual basis (details available from the registrar).

Students may elect to pursue a part-tim program. Part-time subject areas are limit and offered at the discretion of the C.Y.W. Department. Part-time students applying f full-time status will be viewed

as new applicants and must satisfy all admission criteria.

Two-year diplomas
Correctional worker, developmental services worker, early childhood education, general arts and science (liberal studies), law and security administration, Native community worker, teacher aide.

Procedures: qualified applicants will be required to:
1) attend an information session that will include career information, program and course information, and field placement requirements. If attendance at an information session is impossible, alternative arrangements must be made.
2 a) demonstrate career awareness by indicating in writing what exposure they have had to the field *i.e.*, volunteer or part-time work, or visitation to a centre. Submit this information at the information session.
b) demonstrate career awareness by providing confirmation of having visited a centre, or of part-time or volunteer work at a centre. Submit this information at the information session.
c) submit two letters of reference and attend a group interview.
3) submit a medical certificate of good health.

Contact the registrar for exact requirements. All procedural requirements must be complete before final admission will be granted.

One or two semesters
College preparatory, career explorations in human services, general arts and science, teacher of adults.

• Business

Three-year diplomas
Accounting, programmer analyst, tourism marketing management.

Additional admission requirements: programmer analyst – computer programmer 2-year diploma with a GPA of at least 2.5.

Two-year diplomas
Accounting, advertising management, computer programmer, finance and sales management, hotel and restaurant management, office administration (executive and legal).

Additional admission requirements: Grade 12 mathematics recommended for accounting and computer programmer.

One-year certificates
Chef training, office procedures/retail sales.

• Health Sciences

Three-year diploma
Nursing.

Additional admission requirements: Grade 12 general level mathematics, as well as two senior sciences, one of which must be chemistry, and the other one of the following: biology, physics, human anatomy, or physiology. At least one of the science credits must be at the advanced level.

Recommendations: overall academic standing of applicants, based on an average of Grade 12 English and the two senior sciences, should be more than 70% if the applicant has subjects at the general level and 60% if the applicant has subjects at the advanced level.

To assist students in making decisions about a career, we recommend that students, prior to admission, become knowledgeable about nursing through some exposure to nurses and the health care field, such as volunteer work, career day experiences with nurses, or other similar experiences.

Procedures: qualified applicants will be required to attend an information session, take pretests, and meet certain health and other requirements. Contact registrar for details.

One-year certificate
Nursing assistant.
Procedure: qualified applicants will be required to attend an information session, take pretests, and meet certain health and other requirements. Contact the registrar for details.

• Technology

Three-year diplomas (engineering technology)
Architectural, aviation (flight), civil, computer, electrical, electronic, mechanical.

Additional admission requirements: Grade 12 technical mathematics at the general level (advanced mathematics strongly recommended); aviation – Grade 12 general level mathematics, information session, tests (contact registrar).

Three-year diplomas (science and natural resources technology co-operative education programs)
Forestry (fish and wildlife), environmental engineering (co-op), forest management (co-op), forestry (parks and recreation), water resources engineering (co-op), pulp and paper engineering (co-op).

Additional admission requirements: forestry – Grade 11 general level technical mathematics.

Recommendations: completion of Grade 11 or 12 general level biology and physics and advanced level chemistry and mathematics are strongly recommended; pulp and paper engineering, water resources engineering – Grade 12 general level technical mathematics and chemistry.

Two-year diplomas (engineering technician)
Architectural (drafting), civil, construction, electrical, electronic, instrumentation, mechanical, mechanical (drafting), mechanical (machining).

Additional admission requirements: electrical, electronic, mechanical, mechanical (drafting) – Grade 12 general level technical mathematics, advanced mathematics recommended.

Two-year diplomas (science and natural resources technician co-operative education programs)
Environmental engineering technician, forestry technician, geology engineering technician.

Additional admission requirements: Grade 11 general level technical mathematics.

One-year certificates (techniques)
Heavy equipment diesel, machine shop, welding and fabricating.

Special admission requirements: Grade 10 general level technical mathematics.

• Postdiploma Programs
Food and beverage management.

Admission requirements: completion of a chef training program with minimum G.P.A. of 2.5, or equivalent training/experience.

Infant toddler care and education.

Admission requirements: graduation from an approved early childhood education program. Applicants with a diploma or degree in a related field will be considered on an individual basis.

Tourism marketing management.

Admission requirements: graduation from advertising management, finance and sales management, food and beverage management, or hotel and restaurant management programs.

• Alternative Learning

Academic upgrading
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

The Learning Assistance Centre offers computer-aided learning, controlled reading machines, and tutorial assistance to students.

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Continuing education
Sault offers a wide variety of credit and non-credit courses, supervisory and management courses, and industrial training courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

Futures
Futures provides skills training and work experience to help young people 16-24 years of age prepare for permanent employment. An off-campus office (705)942-7003 handles inquiries.

Retraining
College preparatory levels and skill prerequisites are available through upgrading or academic development studies for students who lack specific prerequisites. Contact the college for further information.

Further Information
Additional information is available by contacting
Liaison/Placement Officers
Suzanne Dunn, Mary Ellen Tomie

Financial Aid Officer
Dorothy Vena

Co-operative Education Liaison Officers
Lynda Bowyer, Jeff Cartwright

Mr. Jim Erb, Registrar
Sault College of Applied Arts and Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 759-6700
Toll-free 1-800-461-2260

Seneca College of Applied Arts and Technology

North York, York Region

President: W.R. McCutcheon

Enrolment 1988-89

Full-time	9 362
Part-time	77 902

Seneca College is a multi-campus institution serving Metropolitan Toronto, the City of North York, and the Regional Municipality of York, north of the metropolitan area.

Campus locations:

Newnham Campus
1750 Finch Ave. E.
North York, Ontario
M2J 2X5

Jane Campus
21 Beverly Hills Dr.
Downsview, Ontario
M3L 1A2

Sheppard Campus
43 Sheppard Ave. E.
North York, Ontario
M2N 2Z8

Yorkdale Campus
2999 Dufferin St.
Toronto, Ontario
M6B 3T4

King Campus
Dufferin St. N.
R.R. 3
King City, Ontario
L0G 1K0

Leslie Campus
1255 Sheppard Ave. E.
North York, Ontario
M2K 1E2

Lawrence Campus
1780 Lawrence Ave. W.
Toronto, Ontario
M6L 1C7

Dufferin Campus
1000 Finch Ave. W.
Downsview, Ontario
M3J 2V5

Glen Park Campus
100 Dalemount Ave.
North York, Ontario
M6B 3C9

Fairmeadow Campus
17 Fairmeadow Ave.
North York, Ontario
M2P 1W6

Markham Office
8525 McCowan Rd.
Unit 105
Markham, Ontario
L3P 5E5

Futures
55 Spring Garden Rd.
North York, Ontario
M2N 3G1

Newmarket Office
112 Yonge St.
Newmarket, Ontario
L3Y 6Y9

School of Communication Arts
1124 Finch Ave. W.
North York, Ontario
M2N 5P1

Caledonia Campus
1200 Lawrence Ave. W.
Toronto, Ontario
M6A 1E3

Vanier Annex
3000 Don Mills Rd.
North York, Ontario
M2J 5P1

Programs Offered

- **Arts and Science – General and Applied**

Three-year diplomas
Design arts, fashion arts, fashion (retail merchandising).
Additional admission requirements: Grade 12 English, group orientation session, questionnaire, and portfolio/testing; design arts – art or drafting credits suggested; fashion (retail merchandising) – Grade 12 English. Grade 12 mathematics for business and consumers desirable, computer studies, accounting and economics credits, work experience desirable.

Two-year diplomas
Audio-visual techniques, broadcasting (radio and TV), coaching techniques (gymnastics, figure skating), computer graphics, cosmetics, creative advertising/broadcasting, design illustration, early childhood education, fashion arts, fashion merchandising, flight services (three semesters), golf course technician, government administration, harness horse industry operations, illustration – technical, law enforcement, legal assistant, library techniques, outdoor recreation technician, parks operations and services, property management, real property administration, recreation facilities management, social service worker, social service worker (gerontology), visual merchandising arts.
Additional admission requirements: Grade 12 English, group orientation session, questionnaire/testing; audio-visual techniques – senior level (Grade 11 or 12) mathematics, any art, photography, graphics, theatre, electronics, and/or computer credits suggested; broadcasting (radio and TV) – senior level (Grade 11 or 12) mathematics for business and consumers; coaching techniques – satisfactory medical, practical test to demonstrate competence in figure skating; cosmetics – Grade 10 mathematics for business and consumers desirable; creative advertising/broadcasting – advanced level credits in English, keyboarding skills, any art and/or computer science credits suggested; design illustration – art or drafting credits suggested; early childhood education – current medical report and report of chest X-ray or tuberculin test; fashion arts – Grade 11 or 12 art and dressmaking skills desirable; flight services – Grade 12 French or OSIS equivalent; government administration – Grade 12 mathematics for business and consumers, any computer studies credit and keyboarding skills suggested; harness horse industry – work experience with horses desirable; outdoor recreation technician – standard first aid certificate; property management – Grade 12 mathematics, Grade 12 advanced level English; computer graphics, illustration technical – drafting, computer science and senior level (Grade 11 or 12) science and mathematics credit suggested; fashion merchandising – Grade 11 mathematics for business and consumers; real property – Grade 12 mathematics, any computer studies credit with keyboarding skills suggested; visual merchandising – Grade 11 or 12 art desirable.

One- to three-year program
College vocational program.

Special admission requirements: candidates must have successfully completed OSSD basic level credits or a high school vocational or occupational program, be recommended by the principal or designate; minimum age 17.

One-year certificates
Arts administration, cosmetics, day care assistant, recreation resource mangagement, retail florist.

Additional admission requirements: arts administration – postsecondary diploma or degree or five years business experience; cosmetics – Grade 12 English desirable, Grade 10 mathematics for business and consumers, group orientation session, questionnaire/testing; day care assistant – Grade 12 English, orientation session, questionnaire; retail florist – Grade 12 English, questionnaire, orientation session.

• Business

Three-year diplomas
Accounting and finance, business administration, business and computer systems, computer programming and analysis (co-op and electronic data processing – auditing options are available), international business, international traffic and customs administration, marketing administration, small business administration, tourist industry administration.

Additional admission requirements: Grade 12 English, Grade 12 mathematics for business and consumers or mathematics for technology or advanced mathematics; tourist industry administration – questionnaire, orientation session.

Two-year diplomas
Accounting, computer programming and operating, general business, international traffic and customs assistant, marketing, office administration (bilingual, executive word processing, legal word processing, medical), records and information management, small business management, tourism studies.

Additional admission requirements: Grade 12 English; accounting, computer programming and operating, general business, marketing, small business management, tourism studies – Grade 12 mathematics for business and consumers or mathematics for technology or advanced mathematics, office administration (bilingual) – Grade 12 French as a second language or work experience and fluency in French; records information management – orientation session, questionnaire.

One-year certificates
Accounting clerk (microcomputer), general dicta-typist, human resources management, international business management, sales representative.

Additional admission requirements: Grade 12 English; accounting clerk (microcomputer) – Grade 12 mathematics, Grade 12 English; human resources management, international business management, sales representative – accredited university degree or three-year college diploma or mature student with three to five years' work experience.

• Health Sciences

Three-year diploma
Nursing.
Upon successful completion of the examination set by the College of Nurses of Ontario, this program leads to certification as a registered nurse.

Additional admission requirements: minimum of 65% in all of the following: Grade 12 mathematics for business and consumers or Grade 12 mathematics for technology or Grade 12 advanced mathematics, Grade 12 English, Grade 11 or 12 biology, either Grade 11 or 12 chemistry or physics; group orientation session, testing, certificate in standard first aid.

One-year diploma
Dental hygiene.

Additional admission requirements: college dental assistant certificate, or equivalent as determined by the college. Work experience is a major weighting factor in the admission/selection procedure. College testing, current certification in basic CPR, and successful completion of a course in radiation safety approved by the HARP commission required.

One-year certificate
Dental assisting.

Additional admission requirements: Grade 12 English, group orientation session, testing, Grade 11 or 12 biology, Grade 11 or 12 chemistry or physics, Grade 12 mathematics for business and consumers or Grade 12 mathematics for technology or Grade 12 advanced mathematics, current certificates in standard first aid and basic CPR, 30 wpm typing skills.
Animal health technician.

Additional admission requirements: Grade 12 English, Grade 12 mathematics for technology or advanced mathematics, Grade 11 or 12 chemistry and biology, questionnaire, group orientation session, pre-tests.

• Technology

Three-year diplomas (technology)
Aviation and flight (eight continuous semesters over three years).

Additional admission requirements: Grade 12 English, Grade 12 advanced level mathematics, Grade 11 or 12 physics and chemistry, college mathematics test, medical fitness as defined by the college (Transport Canada Standards). Candidates should request detailed information concerning entrance requirements.

Biological research, chemical (co-op), chemical (pharmaceutical) (co-op), civil engineering (co-op) (marine option), computer engineering(co-op), electronics engineering (options in computer communications, nuclear power, and control), fire protection, laboratory, manufacturing engineering, mechanical engineering (option in nuclear power), resources engineering (co-op, option in marine).

Additional admission requirements: Grade 12 mathematics for technology or equivalent or Grade 12 advanced mathematics, Grade 12 English; civil engineering – desirable: Grade 11 or 12 physics, advanced level mathematics; resources engineering – desirable: Grade 11 or 12 geography and advanced level mathematics; electronics, manufacturing, and mechanical engineering – desirable: Grade 11 or 12 physics, Grade 11 or 12 chemistry; chemical – Grade 11 or 12 chemistry, desirable: advanced level chemistry and mathematics; chemical (pharmaceutical) – Grade 11 or 12 chemistry, desirable: advanced level mathematics and Grade 11 or 12 physics and biology; laboratory – Grade 11 or 12 chemistry, desirable: Grade 11 or 12 physics; biological research – Grade 11 or 12 chemistry and biology, desirable: Grade 11 or 12 physics; computer engineering – advanced level mathematics desirable; fire protection – desirable: Grade 11 or 12 chemistry and physics, advanced level mathematics.

Two-year diplomas
Biological chemical technician, cartographic technician, civil engineering, electronics engineering (communications, computers, and avionics options), electrophotographic systems, fire protection, manufacturing engineering (NC/CNC programmer option), mechanical engineering (NC/CNC programmer and design/drafting option), resources engineering.

Additional admission requirements: Grade 12 English, Grade 12 mathematics for technology or equivalent or Grade 12 advanced mathematics; biological chemical technician – Grade 11 or 12 chemistry, desirable: Grade 11 or 12 biology and physics; civil engineering – desirable: Grade 11 or 12 physics; electronics engineering – desirable: advanced level credits in mathematics; mechanical engineering – desirable: Grade 11 or 12 physics; resources engineering – desirable: Grade 11 or 12 geography; fire protection – desirable: Grade 11 or 12 physics.

One-year certificate
Electron microscopy, underwater skills, precision machining.

Additional admission requirements: Grade 12 mathematics for technology or Grade 12 advanced mathematics, Grade 12 English; underwater skills – Grade 11 mathematics for technology or equivalent or Grade 11 advanced mathematics, Grade 11 or 12 physics, group orientation session, sports scuba diving certificate from approved organization, questionnaire, first aid certificate, successful completion of approved

commercial-diving medical before beginning program, testing; precision machining – Grade 12 mathematics, desirable: machine shop and drafting preferred; electron microscopy – B.Sc. or higher university degree, an appropriate college diploma, or registered technologist diploma.

• English and Liberal Studies

Two-year program
General arts and science.
Special admission requirements: senior level English credit.

One-and-a-half-year program
College opportunities.
Admission requirements: Grade 12 diploma or mature student over 19 years of age.

One-year program
Corporate communications.
Special admission requirements: accredited university degree or college diploma or mature student with five years' related work experience.

• Alternative Learning

Continuing education
Diploma and certificate level study, vocational subjects, special interest subjects, and college preparatory courses are offered. For an up-to-date list of courses, consult the part-time studies calendar. Also see "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section for a general description.

Academic upgrading/college preparatory programs
For students wishing to register in postsecondary programs but who do not have the OSSD/OSSGD, academic upgrading programs are offered at the Lawrence and King campuses. Students must be at least 19 years of age on or before the first day of classes.

The Centre for Independent Learning (C.I.L.)
43 Sheppard Avenue East,
North York, Ontario M2N 2Z8.

The Centre for Independent Learning, located on the Sheppard campus, is designed to provide postsecondary educational opportunities to those people whose work or personal commitments make it impossible to attend regularly scheduled classes on campus. As well, the flexible, self-paced format of the centre's courses allows the student to complete required study objectives in a shorter or longer period of time than the traditional semester. Small group seminars, individual tutorials, and independent work assignments replace the formal scheduled classroom lectures, which can be taken during the day and/or evening, including Saturday mornings.

The following full-time postsecondary programs are offered through the C.I.L.: business administration, computer studies, general business.

Skills development programs
Basic employment training, basic job-readiness training, college preparatory program/academic upgrading, computer-assisted design operator, computer numerical control programmer, electronics (options in radio, hi-fi and TV servicing, cable TV service and maintenance, digital electronics), English as a second language, farrier, Futures, industrial maintenance mechanic, machine shop, office system operation, Ontario basic skills, photocopier repair and maintenance, redirection through education, residential construction co-ordinator, tour guide, underwater skills, women into trades and technology, working skills for women.

Admission requirements: mature student status, age 19 or over on the first day of classes; in some programs an OSSD is required. Refer to the college program handbook for full details. Each potential student is given functional tests by the college to determine the applicant's aptitude and ability for the desired program of instruction.

Further Information
Additional information is available by contacting the college (see *Campus locations* for addresses):
Newnham Campus
Registrar's Office
Telephone (416) 491-5050

King Campus
Registrar's Office
Telephone (416) 833-3333 (calling from Metro Toronto or King City)
Toll-free 1-800-263-2060 (calling outside Metro Toronto or King City)

Sheppard Campus
Admissions Office
Telephone (416) 491-5050 (days), 491-5054 (evenings)

Lawrence Campus
Admissions Office
Telephone (416) 491-5050

Leslie Campus
Student Services Office
Telephone (416) 491-5050

Yorkdale Campus
Registrar's Office
Telephone (416) 491-5050

Jane Campus
Telephone (416) 491-5050

Glen Park Campus
Telephone (416) 491-5050

Dufferin Campus
Telephone (416) 491-5050

Newmarket Office
Telephone (416) 898-6199

Caledonia Campus
Telephone (416) 491-5050

School of Communication Arts
Telephone (416) 491-5050

Sheridan College of Applied Arts and Technology

Oakville, Brampton, Burlington, Milton, Mississauga

President: Mary E. Hofstetter

Enrolment 1988-89

Full-time	7 178
Part-time	61 191

Sheridan College offers a number of programs with a co-operative education component, which allows students to alternate academic terms and practical experience. The School of Crafts and Design is the largest school in Ontario devoted to crafts education, and the Heavy Equipment School in Milton has developed one of the best-equipped heavy-equipment training facilities in North America.

Campus locations:

Oakville Main Campus
1430 Trafalgar Rd.
Oakville, Ontario
L6H 2L1

Brampton Campus
McLaughlin Rd.
Box 7500
Brampton, Ontario
L6V 1G6

Burlington Campus
3055 New St
Burlington, Ontario.
L7N 1M6

Credit Valley Campus
School of Nursing
2186 Hurontario St.
Mississauga, Ont.
L5B 1M9

Mississauga Campus
100 Dundas St. W.
Mississauga, Ontario
L5B 1H3

Milton Campus
Heavy Equipment School
R.R. 3
Milton, Ontario
L9T 2X7

Port Street Campus
1 Port St. E.
Mississauga, Ontario
L5G 4N1

Queen Elizabeth Campus
178 South Service Rd. E.
Oakville, Ontario
L6J 2X5

Argus Road Campus
572 Argus Rd.
Oakville, Ontario
L6J 3J3

Training and Development Centre
100 Wilkinson Road
Unit 5-8
Brampton, Ontario
L6T 4Y9

Dorval Campus
700 Dorval Drive
Suite 200
Oakville, Ontario
L6K 3B3

[redacted]

• Arts and Science – General and Applied

Three-year diplomas
Sign-language interpreter (option to graduate after two years and receive a sign-language communicator diploma), visual arts – illustration (interpretive).
Additional admission requirements: sign-language interpreter – testing in English, questionnaire, information session, applicants with previous postsecondary education and/or facility in American sign-language may apply for advanced standing; visual arts – questionnaire, portfolio.

Two-year diplomas
Correctional worker (co-op), early childhood education, general arts and science (co-op) (September and January admission), general arts and science (liberal studies), law and security administration (police education, loss prevention management (co-op), possible January admission), social service worker.
Additional admission requirements: English testing, questionnaire, information session.

• Business and Office Administration

Three-year diplomas
Accounting (co-op), business administration (accounting, general, human resource management, marketing options), marketing (co-op). All options have a common first year; accounting and marketing have a co-op mode available.
Additional admission requirements: Grade 12 English required, Grade 12 mathematics recommended, completion of language-proficiency and mathematical-skills tests.

Two-year diplomas
Business (accounting (co-op option), finance, marketing, (co-op option), general, human resource management options), office administration (executive, information systems, legal, medical options), records and information management.
Additional admission requirements: business – Grade 12 English required, Grade 12 mathematics recommended; office administration – Grade 12 English, questionnaire, information session.

One-year certificate
Office administration (general).
Additional admission requirements: Grade 12 English, questionnaire, information session.

• Computer Studies

Three-year diplomas
Computer science technology (co-op), systems analyst.
Additional admission requirements: systems analyst – Grade 12 English and technical mathematics; computer science technology (co-op) – Grade 12 technical mathematics and chemistry and Grade 11 physics. Direct entry to semester 2 may be granted to computer science technology applicants with 60% in two OAC credits including mathematics and one science. Direct entry to semester 3 may be granted to applicants who have 60% in four OAC credits including two mathematics and one science or three mathematics.

• Hospitality

Two-year diplomas
Hotel and restaurant management.
Additional admission requirements: Grade 12 English, Grade 12 mathematics recommended, questionnaire, information session. Refer to college calendar for further information.

• Technology

Three-year diplomas (technology)
Architectural (design) (co-op), engineering (chemical, civil (co-op), electronics (co-op)), mechanical (co-op), mechanical (design and drafting) (co-op).
Additional admission requirements: Grade 12 English and mathematics for technology; engineering (chemical, electronics, mechanical) – senior level chemistry or physics; architectural technology (design), mechanical engineering (design and drafting) – senior level physics; applicants with 60% in Grade 13 or OAC credits, related work experience, and/or credits from other postsecondary programs may be eligible for advanced standing in some courses. Check college calendar for details.

Two-year diplomas (technician)
Architectural (drafting) (co-op), chemical (laboratory), civil engineering (co-op), electronics engineering, mechanical engineering (co-op), mechanical engineering (drafting) (co-op).
Additional admission requirements: chemical (laboratory) – Grade 12 English and technical mathematics and chemistry; architectural (drafting), civil engineering (construction), electronics engineering, mechanical engineering, mechanical engineering (drafting) – Grade 12 technical mathematics, secondary school drafting course recommended for architectural (drafting).

One-year certificate
Animal care.
Additional admission requirements: animal care – Grade 12 English, Grade 10, 11 or 12 chemistry and biology.

Special program
Electronic engineering technician (microcomputer option) provides the student with the skills to lay out and produce printed circuit boards, logically troubleshoot a wide range of circuits and systems, and operate modem test equipment.

Oakville Campus

• Arts and Science – General and Applied

Two-year diplomas
Advertising, early childhood education year 2 options (Montessori, computers in ECE, infant and toddler care, special needs programming), general arts and science (liberal studies) (September and January admission for pre-health sciences), human services administration, library techniques, social service worker, travel and tourism.
Additional admission requirements: advertising – Grade 12 advanced English, information sessions; library techniques – above-average English and oral expression; all applicants to applied arts programs must complete a questionnaire; January admission to general arts and science (liberal studies).

One-year (postdiploma) certificate
Courseware design and production.
Additional admission requirements: postsecondary degree or diploma or two years' documented teaching experience at a community college or university and one year's postsecondary credits; or four years' documented industrial training leadership experience and one year's postsecondary credits.

One-year (postbasic) certificate
Educational assistant.
Additional admission requirements: one year of college or university education, majority of credits in health, social, or behavioural science subject areas and some endorsed experience working with exceptional people, or current employment in a helping role with exceptional clients.

One-semester (postbasic) certificate
Developmental care for the mentally retarded.
Additional admission requirements: a diploma or degree in a related social/health science program combined with practical experience in this field, or work in an agency that provides programs for the developmentally handicapped.

• Health Sciences

Two-year diplomas
Sports injury management.
Additional admission requirements: Grade 12 English, Grade 10, 11, or 12 biology, interview or questionnaire, English test.

• Music Theatre

Three-year diploma
Theatre arts (performance).
Additional admission requirements: audition (see college calendar) and interview.

Two-year diploma
Theatre arts (technical production).

Additional admission requirements: information session, portfolio, résumé of past theatrical experience.

• Media Arts

Two-year diplomas
Journalism (print), media arts (production), media arts (writing elective).
Additional admission requirements: journalism (print) – Grade 12 English and above-average oral communication skills, information session, interview, questionnaire, for direct entry for year 2 consult college calendar; media arts (production) – questionnaire, information session, interview, successful completion of media fundamentals or related work experience; media arts (writing elective) – excellent communication skills, questionnaire, information session, portfolio.

Special program
Media fundamentals is a discovery year, during which students are taught the basics of media production required for admission to the media arts (production) program.

• Fashion and Merchandising Arts

Two-year diplomas
Cosmetic techniques and management, esthetician, fashion technique and design (knit and clothing options), retail management, visual merchandising arts.
Additional admission requirements: cosmetic techniques and management – Grade 12 English, Grade 12 mathematics recommended, information session, questionnaire; esthetician – Grade 10 biology, information session, questionnaire; fashion technique and design – portfolio of three fashion drawings, creative ability and a sewing background desirable, information session, questionnaire; retail management – Grade 12 English, Grade 12 mathematics recommended, information session, questionnaire; visual merchandising – an art course recommended, questionnaire, information session.

One-year program
Fashion sales and modeling
Additional admission requirements: Grade 12 English and mathematics recommended, information session, questionnaire.

Special programs
The esthetician program trains skin-care specialists, who often work closely with medical experts such as dermatologists and cosmetic surgeons and who can recognize the conditions under which a client should be referred to a doctor. Note that this program should be distinguished from a cosmetology or cosmetic sales program.
Visual merchandising specialists promote store sales through window and store displays. Students gain experience by working freelance for retailers and fashion-show sets and trade-booth design.

• Art, Craft, and Design

Three-year diploma (or four-year specialist co-operative degree)
Art and art history, a three-year major or four-year specialist co-operative degree program between Sheridan College and Erindale College (University of Toronto), provides students with academic background and practical training in the visual arts. Graduates receive a B.A. from Erindale (completion of ten credits) and a diploma in art and art history (five credits) from Sheridan. In order for the student to be eligible for a Type A certificate (Faculty of Education), a four-year degree with a specialist program in fine art (studio) is available.
Additional admission requirements: applicants must submit separate applications to both Sheridan and Erindale, register at both institutions, and meet Erindale College's admission requirements, including acceptable OAC credits.

Three-year diplomas
Animation, craft and design (ceramics, fabrics, furniture, glass), graphic design.
Additional admission requirements: formal training in art and design, portfolio, questionnaire; crafts and design – those with past craft education and/or experience may be considered for direct entry for year 2; see college calendar for details.

Two-year diploma
Applied photography.
Additional admission requirements: information session.

One-year certificate
Art fundamentals.
Art fundamentals provides students with a foundation in art and design and an opportunity for them to develop their skills and techniques by exposing them to a number of areas in the arts and crafts field.

One-year certificate (postdiploma)
Computer animation, computer graphics.
These are one-year programs for graduates of a postsecondary art or design program of at least three years' duration or those with four years of related professional experience. Résumé and portfolio required. Contact the continuing education department for information on summer programs available from May to August.

Special programs
Art and art history, international summer school of animation.
Art and art history, a three-year major or four-year specialist co-operative degree program between Sheridan College and Erindale College (University of Toronto), provides students with academic background and practical training in the visual arts. International summer school of animation is a 14-week course offered from May to August each year; applications are accepted from out-of-province students. Contact the continuing education department for more information.

• Business and Office Administration

Three-year diplomas
Business administration (accounting, corporate administration, finance, marketing). All options have a common first year.
Additional admission requirements: Grade 12 English required, Grade 12 mathematics and keyboarding recommended. Successful completion of a pretest may exempt a student from a related year 1 course.

Two-year diplomas
Business (accounting and marketing, and transportation and distribution management options), office administration (executive, information systems, legal, medical options).
Additional admission requirements: Grade 12 English; business – Grade 12 mathematics and keyboarding recommended; office administration – information session, questionnaire.

One-year certificate
Office administration (general).
Additional admission requirements: questionnaire, information session.

One-year (postdiploma) certificate
Integrated office systems.
Additional admission requirements: postsecondary diploma or degree or three years' business experience, at least two years of which are at a supervisory level, questionnaire.

• Computer Studies

Three-year diplomas
Business computer systems (co-op option).
Additional admission requirements: Grade 12 English and technical mathematics; consult college calendar for requirements for direct entry into year 2.

Two-year diplomas
Electronic data processing/computer programmer, microcomputer management.
Additional admission requirements: Grade 12 technical mathematics and English.

One-year (postdiploma) certificate
Telecommunications management.
Additional admission requirements: a degree or diploma in a related discipline, or a minimum of two years' work experience.

One-semester certificate
Advanced software applications.
Additional admission requirements: postsecondary diploma or degree or 2 years' documented program-related experience.

[redacted]

• Health Sciences

Three-year diploma
Nursing.
Additional admission requirements: Grade 12 technical mathematics and English, and two of chemistry, physics, or biology at the senior level. Selection procedures involve a questionnaire and testing in mathematics and English. Achievement levels (grades) earned in the prerequisite courses will be "factored" into the applicant's admission profile.

One-year certificate
Nursing assistant.
Additional admission requirements: Grade 12 English or equivalent, testing required in English and mathematics, questionnaire, information session, program available to students on a fee-paying basis or through sponsorship by the Canada Employment and Immigration Commission. Contact a Canada Employment Centre for more information.

[redacted]

• Skills Development

Two-year diploma
Heavy-equipment technician (construction).
Additional admission requirements: Grade 10 mathematics.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section. Contact the Skills Development/Apprenticeship Division at the college for further information.

Continuing Education
The Continuing Education Division offers a wide variety of part-time day and evening credit and non-credit courses as well as supervisory and management courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar, continuing education section, for details.

Co-operative Education
Sheridan College operates several co-operative programs that offer a combination of supervised paid-work experience related to programs of study and academics. Students will complete two academic terms, which are followed by alternating work and academic terms. Each work/study term is four months long. For more information, contact the Department of Co-operative Education.

Distance Learning and Teleconferencing
The college presents videoconferences and teleconferences on-campus and on-site in industry.

Skills Development/Apprenticeship Division
Along with offering academic upgrading, pre-employment, and apprenticeship programs, this division offers commercial refresher courses and English as a second language as well as mechanical and technical programs that provide students with marketable skills. For further information, contact the college's Skills Development Division or the local Canada Employment and Immigration Centre (CEIC).

Training and Development Division
This division aims to meet the needs of local industries by providing courses to upgrade the knowledge and skills of employees at a minimal cost. Training can be provided at our campus locations or on-site at the industry's facility. The Futures program places a young adult in a training position in an organization to learn practical, marketable skills.

Additional Costs
The estimated cost of books, supplies, and instruments for the academic year varies from $500 to $6 000, depending on the type of program. Please consult the college calendar or phone for more information.

Further Information
Please contact
Registrar's Office
(416) 849-2800

Communications-Liaison
(416) 849-2816

Sheridan College of Applied Arts and Technology
1430 Trafalgar Rd.
Oakville, Ontario L6H 2L1
Telephone (416) 845-9430 ext. 8 00
direct lines from Mississauga and Brampton
(416) 823-9730
direct lines from Hamilton and Burlington
(416) 632-7081

Sir Sandford Fleming College of Applied Arts and Technology

Peterborough, Lindsay

President: Dr. Brian L. Desbiens

Enrolment 1988-89

Full-time	4 700
Part-time	17 703

Sir Sandford Fleming College's Sutherland Campus in Peterborough and Frost Campus School of Natural Resources in Lindsay are the college's major postsecondary facilities, offering a total of nearly 80 full-time programs. Numerous non-semestered programs, apprenticeships, and continuous learning and training opportunities are also offered. In addition, the college operates facilities in Cobourg and Haliburton, the home of its Summer School of Fine Arts.

Campus locations:

Sutherland Campus
526 McDonnel St.
Peterborough, Ontario
K9J 7B1
(705) 749-5500
1-800-461-6423

Lakeshore Office
King St. Box 754
Cobourg, Ontario
K9A 4R5
(416) 372-6865

Brealey Dr.
Peterborough, Ontario
K9J 7B1
(705) 743-5610

Northern Office
Box 339
Haliburton, Ontario
K0M 1S0
(705) 457-1680

Frost Campus
School of Natural Resources
Box 8000
Lindsay, Ontario
K9V 5E6
(705) 324-9144
1-800-461-0340

[redacted]

• School of Health Sciences and Applied Arts

Three-year diplomas
Art conservation techniques, employment counsellor, nursing.
Additional admission requirements: refer to the college calendar.

Two-year diplomas
Arts administration, audio-video graphic communications technician, correctional worker, customs administration, early childhood education, educational assistant, general arts and science, international trade – Pacific export (co-op), law and security administration, legal assistant (co-op), loss prevention management (co-op), police education, recreation leadership, social service worker.

One-year certificate
Nursing assistant.
Additional admission requirements: refer to the college calendar.

• School of Technology

Three-year diplomas (technology)
Electrical engineering, electronics engineering (computer systems), electro-mechanical engineering (robotics), quality engineering.
Additional admission requirements: refer to the college calendar.

Two-year diplomas (technician).
Electrical engineering, electronics engineering, electronics engineering (telephone systems), electronics engineering (consumer electronics), electro-mechanical engineering (robotics), quality engineering, mechanical engineering (tool and die).
Additional admission requirements: refer to the college calendar.

One-year certificate
Construction trades technician (co-op), marina technician (co-op).

Fifty-two-week diplomas (non-semestered)
Electro-mechanical engineering technician (robotics), electronic engineering (microcomputer), electronic engineering (telephone systems).
Additional admission requirements: refer to the college calendar.

• School of Business

Three-year diplomas
Business administration (accounting, data processing, general, marketing, materials management, personnel management), office systems administration, tourism and transportation (convention management, general, hospitality management).
Additional admission requirements: refer to the college calendar.

Two-year diplomas
Business (general, office management, sales and merchandising), fashion merchandising, food and beverage management, food service supervisor, recreation merchandising, office administration (executive, legal, medical), tourism and transportation (travel merchandising).
Additional admission requirements: refer to the college calendar.

One-year certificate
Retailing.
Additional admission requirements: refer to the college calendar.

Frost Campus

• Resource Management Division

Three-year diplomas (technology)
Fish and wildlife, forestry, parks and forest recreation, natural resources technologist (law enforcement).
Additional admission requirements: appropriate technician diploma.

Two-year diplomas (technician)
Aquaculture, farm management and agreocology, fish and wildlife, environmental pest management, forest recreation (co-op), forestry.
Additional admission requirements: Grade 12 general level mathematics and English.

• Resource Services Division

Two-year diploma
General arts and science.
Additional admission requirements: Grade 12 general level mathematics and English.

• Resource Technology Division

Three-year diplomas (technology)
Cartographic, geotechnical, heavy-equipment specialist, minerals engineering.
Additional admission requirements: appropriate technican diploma.

Two-year diplomas (technician)
Cartographic, geographic information systems, geological (geotechnical), geological (geoscience), heavy equipment, resources drilling, terrain and water resources.
Additional admission requirements: Grade 12 general level mathematics and English.

• Alternative Learning

Apprenticeship
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

Industrial based training
A variety of federal and provincial training programs are offered, as well as custom-designed courses for business and industry.

Continuing education
Sir Sandford Fleming College offers comprehensive continuing education evening programs in applied arts, business, health studies, and technical areas. Many non-credit subjects of general interest are offered in Peterborough, Lindsay, Cobourg, Haliburton, and other areas. A variety of arts and crafts courses are offered at the School of Fine Arts in Haliburton during July and August.
Weekend workshops are offered in the fall. The college has expanded the staffing of its Conference & Seminar Centre to provide the community with training tailored to specific needs. Offerings include recent innovations in education, business, industrial technology, health, recreation, and human resources development.

• Non-Semestered Programs
Sir Sandford Fleming College offers a variety of non-semestered and short programs:
a) Academic and employment training: basic training for skill development, Futures, Ontario Basic Skills.
b) College qualifying.
c) Skills training: commercial refresher, drilling and blasting, forest nursery worker, hardwood lumber grader, machine shop, marine mechanic, sawmill management, welder fitter, word processing operator, urban tree maintenance worker.
d) English as a second language.

Further Information
For further information on admission requirements and full-time postsecondary programs offered, please contact
Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
Sutherland Campus
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 743-5620
Toll-free 1-800-461-6423
or
Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
School of Natural Resources
Frost Campus
P.O. Box 8000
Lindsay, Ontario K9V 5E6
Telephone (705) 324-9144
Toll-free 1-800-461-0340

Information on student financial assistance may be obtained from
Financial Assistance Officer
Sir Sandford Fleming College of Applied Arts and Technology
Sutherland Campus
Brealey Dr.
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5542
or
Financial Assistance Officer
Sir Sandford Fleming College of Applied Arts and Technology
School of Natural Resources
Frost Campus
P.O. Box 8000
Lindsay, Ontario K9V 5E6
Telephone (705) 324-9144
Toll-free 1-800-461-0340

Apprenticeship

What is apprenticeship?
Put simply ... apprenticeship is an agreement between a person like you who wants to learn a skill and an employer who needs a skilled worker.

Both you and your employer will benefit from apprenticeship. In exchange for your services, you will have the opportunity to learn skills that can provide you with a rewarding career. Your employer will gain a productive, skilled worker.

Apprenticeship is a proven way to train. Canadians trained through apprenticeship have been part of the teams that created:

- the space arm on the U.S. shuttlecraft
- the CN Tower, the world's tallest free-standing structure
- the Urban Transport Development Corporation train – the train of the future
- gourmet meals for world-renowned restaurants and hotels.

Skilled workers, trained through apprenticeship, bake your bread, fix your car, build your home, and print what you are reading now. You too can learn these skills.

Apprenticeship training is administered by the Ministry of Skills Development, under the Apprenticeship and Tradesmen's Qualification Act.

Learn by doing, and earn at the same time!
The best way to learn something is to do it! That's the basis of apprenticeship. Depending on the skilled trade, the length of your training will range from two to five years. During that time, the wage you receive from your employer will never be less than Ontario's minimum wage. In fact, as your productivity improves with increasing skill, so will your pay.

About 90% of the apprenticeship program will be on-the-job training. The remainder is usually spent at a college of applied arts and technology, which provides the additional instruction needed to complete your training. When attending college, you may be able to receive financial support from the Canada Employment and Immigration Commission.

The following pages show, for each trade, the number of hours you will spend on the job and in the classroom. Also listed for the major trades are the skills you will learn during your apprenticeship.

Choose a trade
More than 60 skilled trades regulated in Ontario have their own apprenticeship training programs.

Regulated trades are governed by Ontario regulations under the Apprenticeship and Tradesmen's Qualification Act. These regulations outline the standards and conditions of training for specific trades.

There are also apprenticeship programs designed to provide specific job skills for more than 600 employer-established trades.

The regulated and employer-established trades are grouped into four categories: construction, industrial, motive power, and service. In addition, there is a list of miscellaneous employer-established trades at the end of this section.

What are the entrance standards?
For most trades, the minimum educational requirement is Grade 10 or its equivalent. Employers and unions, however, may insist that applicants have higher academic standards, with credits in specific subjects. Remember that additional education is an asset in the pursuit of any career.

How long does an apprenticeship last?
The duration of an apprenticeship is measured in hours: for example, 9000 hours for a motor vehicle mechanic, 8000 hours for a tool and die maker, 3600 hours for an automotive painter.

The training is divided into periods: for example, five periods of 1800 hours each for a motor vehicle mechanic, four periods of 2000 hours each for a tool and die maker, two periods of 1800 hours for an automotive painter.

Credits for academic and skill achievement
Academic and skill achievement beyond the minimum level required for a particular trade may reduce the length of an apprenticeship training program.

A training consultant from an Apprenticeship Branch Office of the Ministry of Skills Development can assist you in determining your eligibility for apprenticeship credits, which with the consent of your employer can be subtracted from the total training time.

Find an employer ... become an apprentice
In order to become an apprentice, you must first find an employer who will agree to provide training. You should check with the local Canada Employment Centre for information on job opportunities for apprentices in specific trades or areas of the province. An Apprenticeship Branch training consultant may also be able to identify employers who wish to hire an apprentice. Then, it's up to you!

When you are hired as an apprentice, you and your employer are required to sign a contract that specifies the conditions of work, hours, wages, and training. If you are under 18 years of age, a parent or guardian must also sign the contract, since it is a legal agreement between you and your employer. The Ministry of Skills Development registers and retains a copy of this contract.

Throughout your apprenticeship, your training consultant will assist you and your employer to fulfil the requirements of your training program.

Certificate of Apprenticeship and Certificate of Qualification
Upon successful completion of your apprenticeship training you will be issued a Certificate of Apprenticeship. In regulated trades, you must also successfully complete a final examination, and a Certificate of Qualification will be issued. About 20 regulated trades have interprovincial standards examinations, and a mark of more than 69% will entitle you to receive an Interprovincial Red Seal, which permits you to practise your trade in other Canadian provinces and territories without further examination. Trades in which a Red Seal is available are marked with an asterisk(*).

Compulsory and voluntary certification
In certain regulated trades, certification is *compulsory:* only holders of a Certificate of Qualification or registered apprentices can work in these trades. Compulsory trades include electrician, plumber, and motor vehicle mechanic, to name a few.

Regulated trades with *voluntary* certification, such as cook, tool and die maker, farm equipment mechanic, and construction millwright, do not require a Certificate of Qualification. However, this certificate does indicate that the holder has reached a recognized level of skill, which many employers now look for.

More information
For more detailed information on the apprenticeship system, specific trades, and their training schedules, contact the nearest Apprenticeship Branch Office of the Ministry of Skills Development. These offices are listed at the end of this section.

*** Construction Trades Regulated**

Brick and Stone Mason*
Educational requirements
Grade 8 or equivalent.

Length of program
Four periods of 1400 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Constructs and erects walls, arches, fireplaces, chimneys, smokestacks, and other items of brick and stone masonry components; lays firebrick and other refractory materials in walls and arches in the construction of furnaces, or in lining furnaces and retorts, or in enclosing boilers, tanks, and heat-treating furnaces.

Cement Mason
Educational requirements
Grade 8 or equivalent.

Length of program
Three periods of 2000 hours each.

Duties and skills
Finishes concrete flooring by hand or with mechanical equipment, including the application of curing and surface treatments; carries out all phases of waterproofing and restoration of concrete; rubs up and repairs hardened concrete surfaces; places and finishes epoxy, plastic, and other composition materials; finishes and exposes aggregate in pre-cast and architectural concrete.

Construction Boilermaker*
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1650 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Lays out, assembles, and erects boilers, pressure vessels, and heat exchangers, and repairs component parts; reads and understands drawings, specifications, technical literature, and manufacturers' and safety regulations; fits plates, connects steel members, drills, reams, bolts, rivets, welds, and rigs; stress-relieves and tests pressure vessels and enclosures, using air, water, smoke, and other methods.

Construction Millwright
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Installs, repairs, and maintains mechanical machines, their components, and related devices and systems in industrial plants, commercial and institutional buildings, or construction sites; has a broad knowledge of metallurgy, welding, blueprint reading, and the use of precise measuring instruments.

Electrician (Construction and Maintenance)*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including two in-school sessions of 10 weeks and one of 8 weeks.

Duties and skills
Lays out, assembles, installs, repairs, maintains, connects, or tests electrical fixtures, apparatus, control equipment, and wiring for systems of alarm, communication, light, heat, or power in buildings or other structures; plans proposed installations from blueprints, sketches, or specifications, or installs panel boards, switch boxes, pull boxes, and other related electrical devices.

Electrician (Domestic and Rural)
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1800 hours each, including two in-school sessions of 10 weeks and one of 8 weeks.

Duties and skills
Performs the work of an electrician in the construction, erection, repair, remodelling, or alteration of houses, multiple-dwelling buildings containing six or fewer dwellings, or buildings or structures used for farming; performs maintenance to electrical equipment in houses, multiple-dwelling buildings containing six or fewer dwellings, or farm buildings or structures.

General Carpenter*
Educational requirements
Grade 10 or equivalent.

Length of program
3844 hours minimum, 7200 hours maximum, including three in-school sessions of 8 weeks each.

Duties and skills
Does the woodwork in the erection, alteration, or repair of structures; builds and erects forms for concrete; erects scaffolds, partitions; places door frames and window frames; lays floors; prepares walls and ceilings for plastering; installs interior fixtures and kitchen cupboards, and prepares and erects panels; lays out and erects stairs and handrails; fits and fixes hardware; fits doors, windows, and fixtures; weatherproofs outside walls.

Glazier and Metal Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Performs layout, fabrication, assembly, and installation of extruded frames, hardware, store fronts, wall facings, manual sliding doors, window sashes, manual door closers, automatic door operators, and curtain walls; performs layout, fabrication, assembly, and installation of suspended glass fronts, stuck glass fronts, art glass, aquariums, and similar special products; cuts, fits, and installs glass in wood and metal frames for windows, skylights, store fronts, display cases, building fronts.

Hoisting Engineer
This trade comprises two branches:
Branch 1 – mobile crane operator
Branch 2 – tower crane operator

Educational requirements:
Grade 10

Length of program
Branch 1 – Mobile Crane Operator
Three periods of 2000 hours each, including two in-school sessions of 6 weeks.
Branch 2 – Tower Crane Operator
Two periods of 2000 hours each, including one in-school session of 6 weeks.

Duties and skills
Branch 1 – Mobile Crane Operator
Maintains and operates any mechanical device or structure incorporating a power-driven drum and wire rope that is used for raising, lowering, or moving material and is equipped with a boom capable of moving in the vertical plane and mounted on a base or chassis intended to provide mobility; such mobile cranes may be crawler or wheel mounted.
Branch 2 – Tower Crane Operator
Maintains and operates any mechanical device or structure incorporating a power-driven drum, boom and wire rope that is used for raising, lowering, or moving material and utilizing a vertical mast or tower and jib; such tower cranes may be of the travelling, fixed, or climbing type.

Ironworker
Educational requirements
Grade 10 or equivalent and 17 years of age.

Length of program
Three periods of 2000 hours each, including three in-school sessions of 8 weeks (24 total).

Duties and skills
Field-fabricates, assembles, installs, handles, hoists, erects, dismantles, reconditions, adjusts, alters, repairs, or services all

*Red Seal trade

*Red Seal trade

structural iron work, pre-cast and pre-stressed concrete, concrete reinforcing materials, ferrous and non-ferrous materials in curtain wall, ornamental and miscellaneous metal work, and all other materials used in lieu thereof.

Lather
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours each, including two in-school sessions of 10 weeks each.

Duties and skills
In the construction or repair of walls, partitions, ceilings, and arches in any structure: installs by tying, nailing, clipping, or welding wire, metal, or wood lath, plaster board, or other materials and accessories to serve as a base for plaster, cement, or acoustic material; erects plastic and light metal studs, frames, and accessories to receive plaster board and wire and metal lath.

Lineman
This trade comprises two branches:
Branch 1 – power lineman
Branch 2 – construction lineman

Educational requirements
Both branches:
Grade 10 or equivalent.

Length of program
Branch 1 – Power Lineman
Four periods of related training and work experience of 2000 hours each.
Branch 2 – Construction Lineman
Three periods of related training and work experience, one of 2500 hours and two of 2000 hours each.

Duties and skills
Branch 1 – Power Lineman
Operates, maintains, and services overhead and underground power lines used to conduct electricity from generating plants to consumers.
Branch 2 – Construction Lineman
Constructs or assembles a system of power lines used to conduct electricity from generating plants to consumers.

Painter and Decorator
This trade comprises two branches:
Branch 1 – commercial/residential
Branch 2 – industrial

Educational requirements
Both branches
Grade 10 or equivalent.

Length of program
Branch 1 – Commercial/Residential
Three periods of related training and work experience of 1800 hours each, including one in-school session of 8 weeks and two of 7 weeks.
Branch 2 – Industrial
Three periods of related training and work experience of 1800 hours each.

Duties and skills
Branch 1 – Commercial/Residential
Prepares and performs interior and exterior work to plaster, wallboard, wood, metal, concrete masonry, stucco, and allied materials; prepares and works with steam wallpaper-stripping machines, and applies wall coverings, wallpaper, grass cloth, wood veneer, vinyl fabrics, and allied materials.

Branch 2 – Industrial
Prepares and performs interior and exterior work to plaster, wallboard, wood, metal, concrete masonry, stucco, and allied materials; prepares and performs work by mechanical processes, blow torches, spray guns, and sandblasting.

Plasterer
Educational requirements
Grade 8 or equivalent.

Length of program
Four periods of 1600 hours each.

Duties and skills
Applies plaster and stucco to the walls and ceilings, whether interior or exterior, of a structure; applies plaster and stucco on lath, masonry, and rigid insulation; tapes gypsum panels and wallboard.

Plumber*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Lays out, assembles, installs, maintains, or repairs in any structure, building, or site, piping, fixtures, and appurtenances for the supply of water for any domestic or industrial purpose or for the disposal of water after it has been used for a domestic or industrial purpose.

Refrigeration and Air-conditioning Mechanic*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Installs or assembles any component of a refrigerating or air-conditioning system; assembles or connects any pipe or duct used in piping refrigerant or conditioned air; overhauls or repairs any equipment used in refrigerating or air-conditioning systems.

*Red Seal trade

Sheet Metal Worker*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Manufactures, fabricates, assembles, handles, erects, installs, dismantles, reconditions, adjusts, alters, repairs, or services all ferrous and non-ferrous sheet metal work and other materials used in lieu thereof.

Sprinkler and Fire Protection Installer*
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1800 hours each, including two in-school sessions of 7 weeks and one of 8 weeks.

Duties and skills
Lays out, assembles, installs, tests, and maintains high- and low-pressure pipeline systems for supplying water, air, foam, carbon dioxide, or other materials to or for fire protection systems.

Steamfitter*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours, including three in-school sessions of 8 weeks each.

Duties and skills
Lays out, assembles, installs, maintains, or repairs any heating system, cooling system, process system, or industrial system; installs or connects piping in any building or structure; installs the piping for any process, including a process that conveys gas, or the tubing for any pneumatic or air-handling system.

*Red Seal trade

• Construction Trades
Non-regulated

Draftsman (Architectural)
Educational requirements:
Grade 10 or equivalent.

Length of program
Three periods of 2000 hours each.

Duties and skills
Prepares drawings showing internal, external, or other architectural features of office blocks, residential structures, and industrial, commercial, and other buildings.

Drywall and Acoustic Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1500 hours each.

Duties and skills
Applies wallboard sheets to ceilings and interior walls of buildings; installs thermal acoustic insulation and sound-absorption materials.

Terrazzo, Tile, and Marble Setter
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each.

Duties and skills
Installs decorative surfacings composed of cement, sand, pigment or chemical compounds, marble, or other aggregates on floors, stairs, and other surfaces.

• Industrial Trades
Regulated

Fitter (Structural Steel/Platework)
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Reads and interprets blueprints; performs measuring, checking, and layout operations; assembles metal plates and sections, moves finished products using cranes, slings, or other lifting equipment.

Industrial Mechanic (Millwright)*
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including three sessions of in-school training of 8 weeks each.

Duties and skills
Installs, repairs, and maintains mechanical machines, their components, and related pneumatic and hydraulic systems in industrial plants or specific process areas; has a broad knowledge of metallurgy, welding, blueprint reading, and the use of precision measuring instruments.

Industrial Woodworker
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Sets up and operates a variety of machinery used in the construction and fabrication of products manufactured from wood and related materials, such as cabinets, furniture, doors, and door frames.

Machinist*
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1500/2000 hours each (8000 hours maximum), including three in-school sessions of 8 weeks each.

Duties and skills
Sets up and operates various types of precision metal-cutting and grinding machines to close tolerances; has a broad understanding of metallurgy; is familiar with the use and care of precision measuring equipment; has a detailed knowledge of blueprint reading.

Mould Maker
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Makes, repairs, and modifies moulds, models, and templates; has a detailed knowledge of blueprint and drawing interpretation, plastics, and processing methods and equipment.

Printer
This trade comprises eight branches:
Branch 1 – letterpress (job shop)
Branch 2 – lithography (job shop)
Branch 3 – offset pressman (plant)
Branch 4 – linotype operator
Branch 5 – compositor
Branch 6 – pressman (letterpress)
Branch 7 – compositor (phototypesetting)
Branch 8 – compositor and camera technician

Educational requirements
All branches
Grade 10 or equivalent.

Length of program
Branches 1-7
Four periods of related training and work experience of 2000 hours each.

Branch 8
Five periods of related training and work experience of 2200 hours each.

Duties and skills
Branch 1 – Letterpress (Job Shop)
Operates printing presses, feed and delivery systems; mixes and matches ink; performs finishing processes in bindery; performs routine maintenance of equipment; handles paper, ink, and other supplies; composes type; produces, reads, and corrects proofs; makes up pages; uses photoengravings, electrotypes, and rubber and plastic plates.

Branch 2 – Lithography (Job Shop)
Operates and maintains lithographic process printing presses; performs bindery and other finishing operations; prepares photographic and plate-coating solutions; handles paper, ink, and chemicals; performs layout operations; composes type; reads and marks proofs; performs camera copy reproduction; uses various types of cameras and filters; develops film; produces various types of plates.

Branch 3 – Offset Pressman (Plant)
Operates press; installs plate and checks registration; removes and cleans plate and cylinders at end of run.

*Red Seal trade

Branch 4 – Linotype Operator
Operates keyboard-controlled typecasting machine to cast in metal lines of type.

Branch 5 – Compositor
Sets type by hand or machine, and assembles type and cuts in galleys; determines type size, style, and layout from worksheet; cleans type after use, and sorts and stores letters and spacers; may operate proof press to take proofs; carries out bindery and other finishing operations.

Branch 6 – Pressman (Letterpress)
Performs routine maintenance of equipment; sets up letterpress printing press and colour position; mixes special colour inks; inspects and handles paper rolls; operates main level of press.

Branch 7 – Compositor (Phototypesetting)
Understands hot, cold, and non-metallic composition and colour printing; operates various types of printing presses and binding equipment; handles paper and other printing stock; does advertising artwork and layout; designs business forms; composes advertising, forms, and books; lays out pages in correct order for press; performs colour separations.

Branch 8 – Compositor and Camera Technician
Performs routine maintenance of equipment; prepares photographic solutions and files negatives, chemicals, and supplies; uses phototypesetting, hand lettering, and transfer lettering in layouts and page and display composition; uses mechanical colour, register systems; uses various types of cameras; selects proper film and colour-proofing materials for use in contact printing; processes film.

Tool and Die Maker
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Makes, repairs, and modifies dies, forms, cutting tools, gauges, jigs, and fixtures; works to close tolerances; has a detailed knowledge of blueprint reading and interpretation; should have a broad understanding of metallurgy and a working knowledge of the use, care, and operation of machine tools and related equipment.

• Industrial Trades Employer-Established

Carpenter (Plant)
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1800 hours each.

Duties and skills
In an industrial plant or industrial processing area, cuts, shapes, assembles, erects, and maintains various types of wood structures and fittings, using hand and power tools; makes, alters, and repairs structural woodwork and objects.

Chemical Plant Operator
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 2000 hours each.

Duties and skills
Operates control panels that control distillation trains, chemical reactors, pumps, compressors, and heat exchangers; operates and controls filters, blenders, and steam, electric, and gas heating devices, decanters, mixers, dryers, pumps, compressors, vacuum jets and pumps, conveyors, fans, and blowers; fills containers, tank cars, tank trucks, and storage tanks.

Draftsman (Mechanical)
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 2000 hours each.

Duties and skills
Prepares working plans and other technical drawings from sketches or notes for machines, engines, jigs and fixtures, mechanical equipment, and various types of products for engineering, manufacturing, illustrative, and other purposes.

Electrician (Plant Maintenance)
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each.

Duties and skills
In an industrial plant, installs conduit, junction boxes, and switches; pulls, insulates, and seals cables; installs, aligns, hooks up, and tests machines; installs lighting, control, communications, and heating systems; overhauls and repairs AC and DC motors and generators.

Electronics Mechanic (Industrial Control)
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each.

Duties and skills:
Installs, tests, calibrates, and repairs electronic control, monitoring, and communications equipment in an industrial plant.

Patternmaker
Length of program
8000 hours.

Duties and skills
Builds, shapes, or repairs wood, plastic, and metal patterns to drawings or specifications, using trade-related hand and power tools, wood-working machines, and machine tools; makes or repairs patterns, including die-block patterns, following blocks for die-sinking machines, using gypsum plasters and cements, poured resin, or fibreglass and resin lay-ups; machines and finishes to drawings or specifications.

Sheet Metal Worker (Plant)
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each.

Duties and skills
In an industrial plant: fabricates, installs, or repairs sheet metal products used for plant maintenance, dust collection, ventilation systems, and plant processes.

Welder (Arc and Gas)
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each.

Duties and skills
Welds metal parts together, according to layouts, blueprints, or work orders, using both gas welding and any combination of arc welding processes such as manual, automatic and semi-automatic, inert gas, and submerged arc; may perform flame-cutting and grinding.

Other information
To weld on boilers, pressure vessels, and pressure piping, it is necessary to pass qualification tests specified by the Ontario Ministry of Consumer and Commercial Relations, Technical Standards Division, Pressure Vessels Safety Branch.

• Motive Power Trades Regulated

Air-Cooled and Marine Engine Mechanic
This trade comprises four branches:
Branch 1 – small-engine mechanic
Branch 2 – marina and small-powered equipment mechanic
Branch 3 – small-engine mechanic (construction)
Branch 4 – boat motor mechanic

Educational requirements
All branches
Grade 10 or equivalent.

Length of program
Branches 1-3
Two periods of 2000 hours each, including two in-school sessions of 10 weeks each.

Branch 4
Four periods of 1800 hours each, including two in-school sessions of 10 weeks each.

Duties and skills
Branch 1 – Small-Engine Mechanic
Repairs small air-cooled gasoline and diesel engines used to power lawnmowers, snowblowers, chainsaws, garden tractors, snowmobiles, portable pumps, and generator sets, as well as air- or water-cooled outboard motors.

Branch 2 – Marina and Small-Powered Equipment Mechanic
Tests and inspects, locates faults in, maintains, repairs, overhauls, and prepares for storage small air- and water-cooled gasoline and diesel engines used to power motor boats and small powered equipment; cleans, maintains, repairs and refinishes wooden, aluminum, and fiberglass boat hulls and fittings.

Branch 3 – Small-Engine Mechanic (Construction)
Repairs small air- and water-cooled internal combustion engines used to power construction tools and equipment: chainsaws, small tractors, portable pumps, air compressors, and generator sets.

Branch 4 – Boat Motor Mechanic
Repairs air- and water-cooled internal combustion engines used to power boats such as inboard, outboard, stern drive engines; maintains, repairs, commissions boats; also installs, replaces, repairs, tests, and maintains electrical and plumbing and all auxillary equipment for boats.

Alignment and Brakes Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles front and rear suspension systems and brake system components, including such items as wheels, tires, springs, and shock absorbers; inspects frame alignment and realigns as necessary.

Auto Body Repairer*
Educational requirements
Grade 8 or equivalent.

Length of program
Four periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Hammers out dents in body panels, fenders, and skirting; files, grinds, sands, fills, and finishes ready for priming any dented or pierced area; uses heat to shrink or stretch metal panels; welds breaks in body areas; tests for and corrects faulty alignment of frames.

Automotive Machinist
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1800 hours each, including one in-school session of 8 weeks and two of 7 weeks.

Duties and skills
Reconditions and rebuilds internal combustion engines and associated components; reconditions power trains and brake and suspension system components.

Automotive Painter
Educational requirements
Grade 8 or equivalent.

Length of program
Two periods of 1800 hours each, including one in-school session of 8 weeks.

Duties and skills
Sands, fills, primes, and applies finishing paint; dries and bakes newly painted surfaces; mixes paints and ingredients and matches colours; refinishes galvanized outer panels and anodized aluminum mouldings.

Farm Equipment Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including one in-school session of 14 weeks and two of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of farm machinery, including steering mechanisms, brakes, engines, power trains, and suspension, air conditioning, fuel, and electrical systems.

Fuel and Electrical Systems Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Diagnoses faults in, disassembles, adjusts, services, repairs, and assembles components of motor vehicles, including electrical, fuel, ignition, and air conditioning systems; performs minor and major engine tune-ups.

Heavy Duty Equipment Mechanic*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including one in-school session of 12 weeks and two of 7 weeks.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of heavy duty equipment, including steering mechanisms, brakes, engines, power trains, and suspension, fuel, and electrical systems.

Motorcycle Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, and overhauls all components of motorcycles, including forks, frames, brakes, engines, power trains, and suspension, fuel, and electrical systems.

Motor Vehicle Mechanic*
Educational requirements
Grade 10 or equivalent.

Length of program
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of motor vehicles, including steering mechanisms, brakes, engines, power trains, and suspension, air conditioning, fuel, and electrical systems.

*Red Seal trade

*Red Seal trade

Other information
An alternative program to this is the three-year motor vehicle mechanic apprenticeship program (MAP 40)*. Under this program, the apprentice attends a 40-week in-school program immediately after being registered and before going on to the on-the-job phase of training. This program is divided into five periods, the first being 1600 hours, and each subsequent period 1080 hours. The apprentice receives a training allowance for the first period while at school. This is a popular program since jobs are found for the apprentices, but enrolment is limited. A further alternative is the day release program, under which apprentices attend school one day per week over the term of their apprenticeship (available only to apprentices in the Durham College area).

Transmission Mechanic
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all motor vehicle transmissions, both automatic and standard, and drive shafts; is familiar with the effects of other components of motor vehicles on the operation of transmissions and drive shafts.

Truck-Trailer Repairer
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

Duties and skills
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of truck trailers, including suspension systems, frames, brakes, and electrical and air conditioning systems.

Red Seal trade

• Service Trades Regulated

Baker
This trade comprises three branches:
Branch 1 – junior baker
Branch 2 – baker
Branch 3 – patissier

Educational requirements
All branches
Grade 8 or equivalent.

Length of program
Branch 1 – Junior Baker
One period of 2000 hours, including one in-school session of 15 weeks.

Branch 2 – Baker
Three periods of 2000 hours each, including two in-school sessions of 15 weeks each.

Branch 3 – Patissier
Four periods of 2000 hours each, including two in-school sessions of 15 weeks and one session of 5 weeks.

Duties and skills
Branch 1 – Junior Baker
Prepares ingredients, straight dough, different types of fermented goods, pies, sweet and puff paste goods, cookies, muffins, tea biscuits, and doughnuts; assists in bakery formulation and fermentation processes.

Branch 2 – Baker
Supervises bakery formulation, fermentation, stock control, receiving and issuing, product costing, and ingredient and material purchasing; prepares puddings and desserts, pastry and choux paste, bread and rolls, icings and fillings, and cakes and creams.

Branch 3 – Patissier
Prepares specialty cakes, pastries, petits fours, chocolate and couverture specialty cookies, wedding cakes, desserts, almond paste, and gum paste, and decorates desserts.

Cook
This trade comprises two branches:
Branch 1 – assistant cook
Branch 2 – cook*

Educational requirements
Both branches
Grade 10 or equivalent.

Length of program
Branch 1 – Assistant Cook
One period of 2000 hours, including one in-school session of 15 weeks.

Branch 2 – Cook
Three periods of 2000 hours each, including two in-school sessions of 15 weeks each.

*Red Seal trade (for branch 2 only)

Duties and skills
Branch 1 – Assistant Cook
Prepares and assembles complete breakfasts, short-order grills, sandwiches, simple salads, simple desserts, vegetables, and non-alcoholic beverages; carves cooked meats, poultry, and game; has a working knowledge of table service, soups, and sauces.

Branch 2 – Cook
Prepares and assembles complete meals, short-order grills, sandwiches, vegetables, hot and cold buffets, salads and dressings, desserts, and non-alcoholic beverages; carves cooked meats, poultry, fish, and game; has a working knowledge of table service; has a knowledge of stock control, menu planning, and food costing and purchasing.

Dry Cleaner
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 900 hours each, including a correspondence course for related in-school training.

Duties and skills
Operates machines to dry clean – with chemical solutions – clothing, textile furnishings, and similar articles.

Hairstylist
This trade comprises three branches:
Branch 1 – barber
Branch 2 – hairdresser
Branch 3 – hairstylist

Educational requirements
All branches
Grade 9 or equivalent.

Length of program
Branches 1 and 2 – Barber and Hairdresser
Three periods of 1500 hours each, including two in-school sessions of 8 weeks each.

Branch 3 – Hairstylist
Three periods of 1580 hours each, including three in-school sessions of 8 weeks each.

Duties and skills
All branches
Tints, bleaches, or dyes hair; shampoos hair and scalp; gives hair and scalp treatments; cuts and trims hair; curls or waves hair by any means; combs or brushes hair; shapes, colours, or treats eyebrows or eyelashes; In addition, Branch 1, barber, shaves or trims beards or moustaches; Branch 2, hairdresser, gives facials and manicures and applies make-up; Branch 3, hairstylist, performs all of the above.

Other information
A person may also become a barber, hairdresser, or hairstylist by successfully completing a ministry-approved program offered by a licensed private school, a college of applied arts and technology, or a high school. A list of schools in Ontario is available from the Ministry of Skills Development, Apprenticeship Branch.

Horticulturist
This trade comprises two branches:
Branch 1 – Nursery, Garden Centre, and Greenhouse Worker
Branch 2 – Groundskeeper, Greenskeeper, and Landscaper

Educational requirements
Both branches
Grade 10 or equivalent.

Length of program
Both branches
Three periods of 2000 hours each.

Duties and skills
Branch 1 – Nursery, Garden Centre, and Greenhouse Worker
Plants, cultivates, and harvests trees, shrubs, and ornamental and flowering plants; plants, transplants, and sells related horticultural products.

Branch 2 – Groundskeeper, Greenskeeper, and Landscaper
Prepares sites by excavating, hauling, and spreading soils and aggregates; develops and maintains turf and fine turf by fertilizing, seeding, sodding, regrading, and irrigating; plants, prunes, and cultivates trees, shrubs, flowers, and bulbs; maintains flowers, shrubs, trees, and all other related plant materials; installs flagstones, concrete, asphalt, and timber in the construction of landscape areas; develops and maintains recreational and ancillary areas.

Radio and TV Service Technician*
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 2000 hours each, including two in-school sessions of 18 weeks each.

Duties and skills
Installs, adjusts, and repairs radio and television receivers and other domestic electronic equipment. *Does not include* the manufacture of radio, television, amplifier, or other related electronic equipment; and does not necessarily include the repair and maintenance of such equipment in an industrial plant, or the wiring of such equipment to an external power source.

• Service Trades
Employer-Established
Note: All employer-established trades are generally covered by Regulation 36, section 6.

Butcher
Educational requirements
Grade 10 or equivalent.

Length of program
Four periods of 1800 hours each.

Duties and skills
Carries out slaughtering, skinning, cleaning, and hanging operations, bones and trims various types of meat carcasses – i.e., beef, veal, lamb, and pork – into marketable retail cuts; may make various kinds of sausages and prepare special meats and fancy meat products.

Furrier
Educational requirements
Grade 10 or equivalent.

Length of program
Three periods of 2000 hours each.

Duties and skills
Makes, alters, restyles, and repairs fur garments; estimates cost of new garments, alterations, renovations, and repairs.

Retail Meat Cutter
Educational requirements
Grade 10 or equivalent.

Length of program
Two periods of 2000 hours each, including one in-school session of 18 weeks.

Duties and skills
Bones and trims various types of meat carcasses – i.e., veal, beef, lamb, and pork – into marketable retail cuts; may make various types of sausages and prepare special meats and fancy meat products; may also carry out poultry and fish preparation.

• Miscellaneous
Employer-Established Programs

There are training schedules for over 600 employer-established programs in Ontario. Some of the more popular ones are listed here, along with the number of training hours involved in each. Graduate apprentices are awarded Certificates of Apprenticeship as evidence of having attained a provincially recognized level of knowledge and skill.

New apprenticeship training programs ca be developed on request. The programs ar usually custom-designed to meet the exact requirements of individual jobs and employers.

Auto Upholsterer
Three periods of 1800 hours each.

Electro-Plater
Four periods of 1800 hours each.

Foundryman (Coremaker)
Two periods of 2000 hours each.

Foundryman (Moulder)
Four periods of 2000 hours each.

Ironworker (Plant)
Three periods of 2000 hours each.

Optics Technician
(Lens and Prism Maker)
Four periods of 2000 hours each.

Pipefitter (Industrial)
Three periods of 2000 hours each.

Plastics Technician
Three periods of 2000 hours each.

Plumber (Plant)
Four periods of 2000 hours each.

Ship Builder (Joiner)
Four periods of 2000 hours each.

Ship Builder (Ship Plater)
Four periods of 2000 hours each.

Steel Mill Worker (Blast Furnace)
Four periods of 2000 hours each.

Steel Mill Worker (Rolling Mill)
Four periods of 2000 hours each.

Upholsterer (Furniture)
Four periods of 2000 hours each.

*Red Seal trade

• Apprenticeship Branch Offices

For more information, please contact a training consultant at the Apprenticeship Branch Office nearest you.

Barrie (705) 737-1431
Belleville (613) 968-5558
Brantford (519) 756-5197
Brockville (613) 342-5481
Chatham (519) 354-9100
Cornwall (613) 938-9702
Hamilton (416) 521-7764
Kenora (807) 468-3325
Kingston (613) 547-4338
London (519) 453-7190
North Bay (705) 474-5546
Oshawa (416) 576-0171
Ottawa (613) 731-7100
Owen Sound (519) 376-5790
Pembroke (613) 735-3911
Peterborough (705) 743-4172
St. Catharines (416) 684-8543
Sarnia (519) 542-7705
Sault Ste. Marie (705) 942-4420
Scarborough (416) 750-3533
Sudbury (705) 675-4481
Thunder Bay (807) 475-1605
Timmins (705) 264-2354
Toronto Central (416) 965-4211
Toronto West Region (416) 897-1551
Waterloo (519) 884-5460
Windsor (519) 254-8654

Toll-free calling may be available in your area; look under *Government-Ontario* in your telephone book.

Occupational Health and Safety
Information about the Occupational Health and Safety Act, 1978, and related matters is available from the Ministry of Labour and the faculties of universities and community colleges throughout Ontario. Occupational Health and Safety Resource Centres are operated by Lakehead University, Laurentian University, Queen's University, the University of Waterloo, the University of Western Ontario, and the Ontario Ministry of Labour.

General Information on Ontario Universities

Admission to Bachelor and First Professional Programs at University

1. Achievement of the Ontario Secondary School Honours Graduation Diploma (OSSHGD), awarded after Grade 13, has normally been required for students entering university directly from secondary school. The OSSHGD will continue to be available until August 1990.
2. The new Ontario Secondary School Diploma (OSSD), available since June 1986, replaces the OSSHGD for purposes of admission to university. During the transition period, June 1986 – August 1990, however, both diplomas are being accepted by Ontario universities in considering candidates for admission.
3. During the same period but possibly extending to 1991 and beyond, Ontario Academic Courses (OACs) are replacing Grade 13 courses. During this transition period the universities will regard OACs and Grade 13 courses as equivalent.
4. Accordingly, beginning with the admissions cycle for fall 1986, either the OSSHGD or the OSSD may be presented with any combination of Grade 13 courses and OACs. This provision will continue throughout the transition period, i.e., until both the OSSHGD and all Grade 13 courses have been phased out.
5. An overall average of 60% in six OACs and/or Grade 13 courses is normally the minimum required for consideration. Special requirements for particular programs will be determined by individual universities as at present. Students should be aware, however, that possession of the minimum requirements does not guarantee admission. Also, applicants with good standing are more readily accepted than students with a borderline standing and, for certain programs with limited enrolments, an average of 70% to 80% or more may be required.
6. The preceding information is intended for students entering university directly from Ontario secondary schools. Other applicants, including those who have been out of school for a time, will be considered by the universities on an individual basis, as at present.

Course Prerequisites

Specific Grade 13/OAC subject requirements vary according to the university and area of study selected. These are listed for each university under the appropriate degree program but, as the admissions information has been confirmed only for the current year, students are advised to check with their guidance counsellors about any possible changes in subject requirements affecting the 1990-91 academic year.

Course Listings

All programs offered are listed under one of nine subject-area headings. For example, a Bachelor of Arts program in music would be listed under the Fine and Applied Arts heading, while a Bachelor of Arts program in business would be listed under the Social Sciences and Related Courses heading.

In the example given below, the Bachelor of Arts program in mathematics and the Bachelor of Science programs in computer science, mathematics, and physics are listed under the Mathematical and Physical Sciences heading. As a Bachelor of Arts program, mathematics is offered only at the four-year honours level; as a Bachelor of Science program, however, it is offered at both the three- and four-year levels. Computer science and physics, also offered as three-year and four-year level Bachelor of Science programs, are not available as Bachelor of Arts programs.

To be eligible for admission to the Bachelor of Arts program in mathematics, applicants must meet the university's general admission requirements and the requirements for a Bachelor of Arts program. For admission to Bachelor of Science programs, applicants must meet the university's general admission requirements as well as the requirements for a Bachelor of Science program.

Mathematical and Physical Sciences

- **Bachelor of Arts**

Four-year honours
Available in: mathematics.
Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Science**

Three-year general/four-year honours
Available in: computer science, mathematics, physics.
Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Early Acceptance

Early acceptance to university may be offered to students before the end of the school year on the basis of their interim Grades 12 and 13 or OAC marks, and on condition that they maintain their standing and complete their year successfully.

Application to Enter an Ontario University

How to apply
A student planning to enrol in any year at an Ontario university or Ryerson Polytechnical Institute will submit an application through the
Ontario Universities' Application Centre
P.O. Box 1328
Guelph, Ontario N1H 7P4
Telephone (519) 823-1940

The Centre receives and records applications and student responses to university offers of admission.

Secondary school applicants

These applicants are currently enrolled in full-time Ontario Grade 13 or OSSD programs with six OACs in accredited secondary or private schools.

The Centre sends blank application forms (OUAC 101) and fee envelopes to each secondary and private school in Ontario.

Each applicant should:

1. complete the personal data on the form;
2. select and record up to three combinations of university and program;
3. give the completed form and the $12 Application Service Fee in the fee envelope to the school official.

School officials record Grades 12 and 13/OAC course data on the application form, remove copy 2 for the school records, and send copy 1 to the Application Centre. The Centre acknowledges receipt of each application by forwarding a Verification/Amendment form (OUAC 103) to the appropriate school official.

The Centre also obtains the recommended interim Grade 13/OAC marks directly from the secondary school concerned.

Other applicants

These applicants (including adults) are not currently enrolled in Ontario secondary schools, but may be applicants who have previously obtained Grade 13, applicants from correspondence or night schools, or applicants from other provinces or countries.

Other applicants may obtain an application form (OUAC 105) from any university or from the Application Centre. Application forms should be completed and submitted to the Ontario Universities' Application Centre along with the Application Service Fee of $12. An applicant may, when applying, choose a maximum of three combinations of university and program. The Centre processes the application and forwards it to the appropriate universities. The applicant must arrange to have supporting academic documents forwarded directly to these universities, quoting the Applicant's Reference Number.

Amendment process

If applicants receive refusals of admission from the universities they have selected, they may add new choices and have their applications forwarded by the Centre to the new universities for adjudication.

University decision concerning the applicant

The university, when it makes an offer of admission to the applicant, includes a response document, which the applicant must complete and return to the Centre. The applicant cannot accept more than one offer of admission. The Centre then processes the response and notifies the one university of acceptance and the other universities of the refusal of their offers.

International students

International students who wish to obtain an application form to attend an Ontario university should direct requests to the Ontario Universities' Application Centre, P.O. Box 1328, Guelph, Ontario, Canada N1H 7P4.

Specific inquiries regarding entrance requirements, courses, fees, residences, and other facilities should be directed to specific universities.

The Application Service Fee for international students is $17 in the form of an International Money Order. Cheques made on non-Canadian banks are not accepted. Should a student not send the fee along with the application form, the form will not be processed.

International students should apply as early as possible. Application forms will not be sent to international applicants between July 1 and September 30. Therefore, it is recommended that application should be made as soon as possible after October 1 for entry into university during September of the following year.

Academic documents, quoting the Applicant's Reference Number, should be sent directly to the university, *not* to the Application Centre.

The Application Centre is involved only with the universities located in Ontario. Inquiries about programs in other provinces should be directed to the individual universities or to the appropriate Department of Education.

Schedule of Important Dates – 1989-90

September 1, 1989
"Regular" (OUAC 105) application forms distributed to universities.

October 9, 1989
Commence distribution of (OUAC 101) application material to secondary schools.

December 15, 1989
Date for receipt of (OUAC 101) application forms from the secondary schools.

January 2 to February 16, 1990
Distribution of (OUAC 103) Verification/Amendment forms to secondary schools will begin as applications are processed.

February 19, 1990
Commence distribution of (OUAC 102) Grades for Early Admission forms to secondary schools.

April 20, 1990
Date for receipt of (OUAC 102) Grades for Early Admission forms from schools that do not have formal examinations in April.

April 27, 1990
Date for receipt of (OUAC 102) Grades for Early Admission forms from schools that do have formal examinations in April.

June 15, 1990
The earliest date by which the candidate may receive offers of early admission, scholarships, and places in residence.

June 29, 1990
Earliest date that universities may require a response to an offer of early admission.

Preliminary Year and Admission from Grade 12
(Procedure is the same as described for full-time Ontario Grade 13 or OSSD students.)
Some universities offer a preliminary of qualifying year in lieu of Grade 13 for highly qualified Grade 12 students or students with sufficient credits towards their OSSD. Brescia College (an affiliate of Western) offers a preliminary year. Carleton offers a qualifying university year in the Bachelor of Arts, Bachelor of Science, and Bachelor of Engineering programs. The University of Ottawa offers a pre-university year only in the science and engineering faculty. A similar program of admission from Grade 12 to the first year of a degree program is offered at Lakehead and Laurentian.

Winter Admission
The following universities offer admission into the first year of some degree programs in the winter semester: Brock (February), Guelph (January, May), Lakehead (February), Laurentian (February), McMaster (February), Ottawa (January), Toronto (January), Erindale College, University of Toronto (February), Waterloo (January), Windsor (January), and York (February).

Mature or Non-Matriculant Students
The admission requirements for mature or non-matriculant students vary. Most universities impose an age minimum of 21 years. Some universities require students to have been away from formal education for a period of time, and some prescribe pre-university course work or special admission tests. In general, mature applicants are expected to have at least adequate standing in the academic work they have undertaken previously and to be able to demonstrate that they have the aptitude for work at the university level.

At many universities, places in full-time programs are filled by early July; therefore, students who are interested in full-time study and are planning to apply as mature or non-matriculant applicants should apply early.

Graduate, Extension, and Summer Programs
Horizons does not include information on the variety of graduate, extension, and summer programs offered at the university level. Graduate programs normally require honours standing in a four-year undergraduate program as a prerequisite. In general, admission requirements for part-time, extension, and summer programs leading to degrees or diplomas are the same as for full-time degree programs. Non-credit courses for students not working toward a degree are also available. For further information, check with the admissions office, the extension department, or the graduate school of the university concerned.

Secondary School Liaison and University Information Programs
During the academic year, representatives from each of the 15 universities in Ontario, Ryerson Polytechnical Institute, and the Royal Military College visit over 100 secondary schools across Ontario to take part in university information sessions for students, parents, and guidance counsellors, as arranged by local and county boards of education. The purpose of these programs is to provide firsthand information about university admission requirements, programs of study, campus life, facilities, campus tours, and scholarships. The names and addresses of secondary school liaison officers are given in the university sections of this publication. Inquiries are welcome.

Occupational Health and Safety
Occupational Health and Safety Resource Centres are operated at Lakehead University, Laurentian University, Queen's University, University of Waterloo, University of Western Ontario, and the Ontario Ministry of Labour.

Names and Addresses of Ontario Universities and Ryerson

Dr. Terrence H. White, President
Brock University
St. Catharines, Ontario L2S 3A1
For general information telephone
(416) 688-5550 ext. 3245

Dr. Robin H. Farquhar, President
Carleton University
Ottawa, Ontario K1S 5B6
For general information telephone
(613) 564-3730

Dr. Brian Segal, President
University of Guelph
Guelph, Ontario N1G 2W1
For general information telephone
(519) 821-2130

Dr. R.G. Rosehart, President
Lakehead University
Thunder Bay, Ontario P7B 5E1
For general information telephone
(807) 343-8157

Dr. John S. Daniel, President
Laurentian University
Sudbury, Ontario P3E 2C6
For general information telephone
(705) 675-1151 ext. 3100, 3915
Toll-free 1-800-461-4030

Dr. Alvin A. Lee, President
McMaster University
Hamilton, Ontario L8S 4L8
For general information telephone
(416) 525-9140 ext. 4787, 4796

Dr. Antoine D'Iorio, Rector
University of Ottawa
Ottawa, Ontario K1N 6N5
For general information telephone
(613) 564-3928

Dr. David C. Smith, Principal
Queen's University
Kingston, Ontario K7L 3N6
For general information telephone
(613) 545-2217, 545-2218

Commodore E.R. Murray, Commandant
and Vice-Chancellor
Royal Military College
Kingston, Ontario K7K 5L0
For general information telephone
(613) 541-6302

Mr. Terence Grier, President
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3
For general information telephone
(416) 979-5036

Dr. G.E. Connell, President
University of Toronto
Toronto, Ontario M5T 1A3
For general information telephone
(416) 978-2190

Dr. John O. Stubbs, President
Trent University
Peterborough, Ontario K9J 7B8
For general information telephone
(705) 748-1215

Dr. D. T. Wright, President
University of Waterloo
Waterloo, Ontario N2L 3G1
For general information telephone
(519) 885-1211 ext. 2265

Dr. K. G. Pedersen, President
University of Western Ontario
London, Ontario N6A 5B8
For general information telephone
(519) 661-2026

Dr. John A. Weir, President
Wilfrid Laurier University
75 University Ave. West
Waterloo, Ontario N2L 3C5
For general information telephone
(519) 884-1970 ext. 2351, 2385

Dr. R. W. Ianni, President
University of Windsor
Windsor, Ontario N9B 3P4
For general information telephone
(519) 973-7014

Prof. Harry W. Arthurs, President
York University
4700 Keele Street
North York, Ontario M3J 1P3
For general information telephone
(416) 736-5100

Geographic Distribution of Ontario Universities

(Please contact the main campus of each university for location of affiliated colleges.)

Programs available at Ontario universities and Ryerson Polytechnical Institute.

Note:
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. *This is not a comprehensive list.* For information on special programs see the individual entries on pages 100-162.
For information about programs offered at the Ontario College of Art see page 178.

Codes:
● = undergraduate degree program
◆ = undergraduate diploma program
■ = undergraduate degree and diploma programs
□ = undergraduate and graduate programs
G = graduate study only
M = minor specialization only
* = check with university for details

Institutions	Brock (St. Catharines)	Carleton (Ottawa)	Guelph (Guelph)	Lakehead (Thunder Bay)	Laurentian (Sudbury)	McMaster (Hamilton)	Ottawa (Ottawa)	Queen's (Kingston)	Royal Military College (Kingston)	Ryerson (Toronto)	Toronto (Toronto)	Trent (Peterborough)	Waterloo (Waterloo)	Western (London)	Wilfrid Laurier (Waterloo)	Windsor (Windsor)	York (Toronto)
40. Agricultural and Biological Sciences																	
40.00 Agriculture																	
40.01 Agricultural Business, Economics			□														
40.02 Agrometeorology			G														
40.03 Animal and Poultry Science			□														
40.04 Applied Microbiology			□														
40.05 Crop Science			□														
40.06 Entomology — Apiculture			□														
40.07 Environmental Biology			□														
40.08 Food/Dairy Science			□														
40.09 Horticulture			□														
40.10 Hydrology			G														
40.11 Plant Protection			□														
40.12 Resources Development			G														
40.13 Resources Management			□														
40.14 Soil Science			□														
41.00 Biology																	
41.01 Biochemistry, Clinical Biochemistry	□	●	□		●	□	□	□			□	●	□	□		□	M
41.02 Biology, Biological Sciences	□	□	□	□	□	□	□	□			●	□	□	●	■	□	□
41.03 Biophysics	●		□			G					□		M	●			
41.04 Biotechnology		●	M			●	●	□					M			●	M
41.05 Biotechnology and Genetic Engineering			G			●		*									
41.06 Botany (Plant Sciences)	□	□	□		□			*			□	●	M	□		M	M
41.07 Cell Biology														●			
41.08 Cellular and Development Biology																□	
41.09 Ecology and Evolution	M		●				*	□						●			M
41.10 Epidemiology and Biostatistics														G			
41.11 Genetics	M		□			*		□			□			●			M
41.12 History of Science														□			
41.13 Molecular Biology and Biotechnology		□	□			●		□					G				
41.14 Population and Environmental Biology																□	
41.15 Premedicine																*	
41.16 Virology						G		*									
41.17 Zoology	□	□	□		□			*			□	*	M	□		M	M
42.00 Biological Sciences: Other																	
42.01 Fish and Wildlife Biology			□					*				*					
42.02 Fisheries Biology			●														
42.03 Human Biology			□			*		*			●	*					
42.04 Human Kinetics			□														
42.05 Marine Biology, Sciences			□					*				*					
42.06 Microbiology, Immunology	M	●	□	●			G	□			□		M	□		□	
42.07 Nutrition and Food Sciences			□				●			●	□			●			
42.08 Toxicology			□					G			□						
42.09 Toxicology and Pharmacology														●			
42.10 Veterinary Medicine			□														
42.11 Wildlife Biology			●					*				*					

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✣ = undergraduate diploma program
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43. Education/Physical Education/Recreation																	
43.00 Education																	
43.01 Art Education				*				*			■	*				*	●
43.02 Arts and Science in Teaching						G						*					
43.03 Chemical Education														G			
43.04 Early Childhood Education	●		M							●		*		□		*	■
43.05 Education	□			□	●	G	□	■□			□	●		□		□	□
43.06 Elementary Education	□			□	■		●	●			●	●		●		●	■
43.07 French Teaching Specialization													●				
43.08 Guidance Counselling														G			
43.09 Secondary Education	□			□			●	●			●	●	*	●		●	■
43.10 Special Education, Exceptional Children	M		M	M			*	*			□	*		*		G	□
44.00 Physical Education and Recreation																	
44.01 Health Studies, Health Care Practice	●			●	●	G		*			●		□				
44.02 Kinesiology, Human Kinetics, Kinanthropology					●	G	□	□					□			□	M
44.03 Mathematics/Teaching Option													●				
44.04 Physical Education, Physical and Health Education	●			□	●	□	□	□			●		*	□	●		□
44.05 Recreation	●			●		*	●				●		□				M
45. Engineering and Applied Sciences																	
45.00 Applied Sciences																	
45.01 Applied Geography			□			□				●							
45.02 Applied Mathematics		●	□	□			●	□			□		□	□		M	●
45.03 Applied Science			□	*		□		□	●		□					□	
45.04 Architecture		●								●	□		●				
45.05 Earth Science	□	●	□		●		●				□		□				●
45.06 Environmental Health										●			*				
45.07 Forestry, Forest Technology				□							□						
45.08 Geography and Environmental Science						*											
45.09 Geological and Applied Earth Science	□		□					□			□		□				●
45.10 Industrial Design		●															
45.11 Landscape Architecture			□							✣	●						
46.00 Engineering																	
46.01 Aeronautical Engineering		G															
46.02 Aerospace Engineering		●								■	□						
46.03 Agricultural Engineering			□														
46.04 Bioengineering						G		*									
46.05 Biological Engineering			□					*									
46.06 Biomedical Engineering						*		G			G						
46.07 Ceramic Engineering						●					G						
46.08 Chemical Engineering				■	*	□	□	□	G	■	□		□				
46.09 Chemical Engineering, Nuclear Option											□						
46.10 Chemical/Biochemical Engineering														□			
46.11 Civil Engineering		□		■	*		□	□	□	■	□		□	□		□	
46.12 Civil Engineering and Computer Systems						●											
46.13 Civil Engineering & Engineering Mechanics						□											
46.14 Computer Engineering		□				□	■	*	□		□		□				
46.15 Electrical Engineering		□		■		□	□	□	□	■	□		□	□		□	
46.16 Engineering		□	□	■	*	*		□			□		□	G		□	
46.17 Engineering and Management						●	●	*	□				□				
46.18 Engineering Chemistry								□									
46.19 Engineering Physics				■		□		□	●		□						

Note:
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For information about programs offered at the Ontario College of Art see page 172.

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□ = undergraduate and graduate programs
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	48.00 Engineering continued																	
	48.20 Environmental Engineering			M								G					□	
	48.21 Fuels and Materials Engineering		G							●		□						
	48.22 Geological Engineering								●			□		●			□	
	48.23 Hydrology			G														
	48.24 Industrial Engineering									■		□					□	
	48.25 Management Engineering							●				□		□				
	48.26 Manufacturing Engineering						●					G						
	48.27 Materials Engineering						●								□		G	
	48.28 Mathematics and Engineering								●					●				
	48.29 Mechanical Engineering		□		■	*	□	□	□	□	■	□		□	□		□	
	48.30 Metallurgical Engineering					●	□		□			□						
	48.31 Mining Engineering					●			□			●						
	48.32 Nuclear Engineering						G			G		□						
	48.33 Occupational Health and Safety						*					G		*				
	48.34 Survey Engineering										■							
	48.35 Systems Design Engineering		□				*					□		□				
	48.36 Water Resources Engineering			□														
47. Fine and Applied Arts	**47.00 Art, Fine Arts, Theatre**																	
	47.01 Art Conservation								G									
	47.02 Art, Fine Arts	●	M	●	●		●	●	●			□	M	●	●	●	□	□
	47.03 Art History	●	●	M	*		●	●	□			□	*	●	●		●	□
	47.04 Art Therapy														+			
	47.05 Arts Administration	M						*				●		●				G
	47.06 Dance				*		*				+			●	M		*	□
	47.07 Drama-In-Education																●	●
	47.08 Drama, Dramatic Art	●		●	*		●		●		+	□	*	●	●	M	●	□
	47.09 Film, Cinema	●	●			M	*		●			●	*	●	●	●	□	□
	47.10 Graphic Communications Management										●							
	47.11 Interior Design										●							
	47.12 Medical Illustration											●						
	47.13 Museum Studies											G						
	47.14 Music Theatre																●	
	47.15 Painting				*												□	□
	47.16 Photographic Arts							●			●							□
	47.17 Radio & Television Arts, Communication Studies										●						□	*
	47.18 Scenic Design																●	
	47.19 Studio Art	●		M			●	●	●			●	M	●	*		□	□
	47.20 Theatre, Theatre Arts	●				●		●	*				M	●			●	□
	47.21 Theatre, Technical/Production	M							*		+			●				□
	48.00 Music																	
	48.01 Music	●	■	●	●	●	●	●	●			□		●	□	■	●	□
	48.02 Music, Ethnomusicology																	●
	48.03 Music Criticism						G											
	48.04 Music Education	●					●	●	●			□			□	●	●	●
	48.05 Music History, Literature	●	●				●	●	●			●			□	●	●	●
	48.06 Music Performance, Applied Music	●		●	*		*	●	●			□			□	●	●	●
	48.07 Music Theory, Composition	●	●		*		●	●	●			□			□	●	●	●
	48.08 Music Therapy															●		

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49. General Arts and Science																	
49.00 General Arts and Science																	
49.01 Arts & Science (Special Program)						●											
49.02 General Arts	●	●	●	●		●	●	●		+		●	●		●		□
49.03 General Arts and Science	●											●					
49.04 General Science	●	●	●	●	●	●	●	●				●	●		●	●	□
50. Health Professions and Medical Sciences																	
50.00 Health Professions and Medical Sciences																	
50.01 Anatomy			G			*	G	G			G		*	G			
50.02 Blood & Cardiovascular Program						G											
50.03 Communicative Disorders											G			G			
50.04 Dental Surgery											□			●			
50.05 Dentistry											□						
50.06 Design, Measurement and Evaluation						G											
50.07 Growth and Development			G			G											
50.08 Health Administration	*					*	G				G		*				
50.09 Health Care Practice						G											
50.10 Medical Biophysics								*			G			G			
50.11 Medicine						□	□	□			□			□			
50.12 Molecular Genetics, Biology			□			□		G			●						
50.13 Neurosciences			□			G											
50.14 Nursing				●	●	●	●	●		■	□			□		■	
50.15 Nursing Education														G			
50.16 Occupational Therapy, Physical Therapy, Physiotherapy						●	●	●			●			□			
50.17 Optometry													□				
50.18 Orthodontics														G			
50.19 Pathology			□					G			G			G			
50.20 Pharmacology						*	G	G			□			□			
50.21 Pharmacy											□						
50.22 Physiology		□	G				G	G			□		G	□			
50.23 Public Health Nursing																+	
50.24 Speech Pathology											G						
51. Humanities and Related Courses																	
51.00 Languages and Literature																	
51.01 Canadian Literature														G			
51.02 Chinese						*					□					M	*
51.03 Classics	●	□	●	M	●	□	□	□			□	●	●	□	●	●	●
51.04 Communication Arts	●	*					●	●							●	□	
51.05 Comparative Literature		G				●					G	*				●	
51.06 Creative Writing																	●
51.07 Croatian						*											
51.08 Eighteenth Century Studies						*						*					
51.09 English Language and Literature	●	□	□	□	●	□	□	□	□		□	●	□	□	●	□	□
51.10 English Literature and Creative Writing																□	
51.11 English Rhetoric & Professional Writing													□				
51.12 French Language and Literature	●	□	●	●	□	□	□	□			□	●	□	□	●	□	●
51.13 French/Teaching Specialization													*				*
51.14 German Language and Literature	●	□	●	M	●	□	●	□			□	●	□	●	●	●	●
51.15 Greek Language and Literature	●	□	●	M	M	●	*	●			□	●	●	□	●	●	●
51.16 Hebrew						*					□						*
51.17 Hispanic Studies						●											
51.18 Italian Language and Literature	●	●	●	M	●	●	●	●			□		M			●	●
51.19 Japanese						*		*			●						*

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	51.00 Languages and Literature continued																	
	51.20 Journalism		□								●				G		*	
	51.21 Latin Language and Literature	●	□	●	M	M	M	*	●			□	●	●	□	●	●	●
	51.22 Linguistics, Applied Linguistics	●	●		M	●	M	□	●			□	*		●			●
	51.23 Mass Communications	●	●						●									●
	51.24 Modern Languages and Linguistics						●						●					●
	51.25 Multicultural Studies																●	
	51.26 Organizational Communications	●															+	
	51.27 Polish Language and Literature						*					●		*				*
	51.28 Portuguese Language and Literature											□						*
	51.29 Renaissance Literature											●						
	51.30 Roman Studies						G		*			●						
	51.31 Russian Language and Literature	●	●		M	●	●	□	●			□		□	●		●	●
	51.32 Sanskrit						*								+			
	51.33 Second Language Teaching																	
	51.34 Serbo-Croatian Language and Literature						*					●		*				
	51.35 Slavic Language and Literature	●					*					□		●				
	51.36 Spanish Language and Literature	●	□	●	M	●		●	□			□	●	●	□	●	●	●
	51.37 Speech Communication													M				
	51.38 Translation, Interpretation	M				●		□	●			G						●
	51.39 Ukrainian Language and Literature						*					●		*				*
	51.40 Western Literature and Civilization														●			
	52.00 Philosophy and Religious Studies																	
	52.01 Philosophy	□	□	□	●	●	□	□	□			□	●	□	□	●	□	□
	52.02 Religion, Religious Studies	●	□		M	●	□	□	●			□	*	●	●	□	□	●
	52.03 Theology, Theological Studies	G					G	□	□			□		*	G	G		
	53.00 Independent Studies																	
	53.01 Independent Studies, Experimental Programs		●	●								●	●	●				●
54. Mathematical and Physical Sciences	**54.00 Mathematics**																	
	54.01 Actuarial Science		M		●				*			●		□	●		●	*
	54.02 Algebra		□						□				*	*				
	54.03 Analysis		□						□				*	*				
	54.04 Applied Algebra																□	
	54.05 Combinatorics and Optimization		□				*	*	□					□				
	54.06 Computation			●			G							*				
	54.07 Computer Science, Computer Studies	●	□	□	□	●	□	●	□	G	●	□	●	□	□	●	●	●
	54.08 Computer Science & Psychology						●						●	□				□
	54.09 Geometry		□						□					*				
	54.10 Logic		M				*		*			●	*	*				
	54.11 Mathematics	●	□	□	□	●	□	□	□	G		□	●	□	□	●	□	□
	54.12 Mathematics and Physics	●	●	□	●		●		●	●		●	●	●			●	□
	54.13 Mathematics/CA/CMA/Business Administration Options						*						*	●				●
	54.14 Mathematics for Commerce													*				●
	54.15 Mathematics/Teaching Option								●			G	●	●	●			●
	54.16 Operations Research		●					●	*					□				+
	54.17 Probability		□						●					*				
	54.18 Pure Mathematics	●	□	□			□	●	□			□	●	□	●		□	□
	54.19 Statistics		□	□			□	●	□			□	*	□	□	M	□	M

Note:
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. *This is not a comprehensive list.* For information on special programs see the individual entries on pages 100-162.
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55.00 Physics																	
55.01 Astronomy	M				M			□			□	*	*	□			G
55.02 Chemical Physics			□			□		□			□	●	□			□	G
55.03 Geophysics, Space Physics, Astrophysics						*		□			□		●	□			□
55.04 Mathematical Physics		●	□	●		M	●	●			*	*	M				M
55.05 Meterology																	✦
55.06 Physics	□	□	□	□	□	□	□	□	G		□	□	□	□	●	□	□
55.07 Physics (Health and Radiation)						□											
55.08 Physics (Theory)						●											
55.09 Theoretical Physics and Applied Mathematics							□						*				
58.00 Physical Sciences: Other																	
58.01 Chemistry	□	□	□	□	□	□	□	□	G		□	□	□	□	■	□	□
58.02 Climatology						*							*				
58.03 Fuel and Energy Science				M													
58.04 Geology	□	□	M	□	□	□	□	□			□		□	□		□	M
58.05 Laboratory Science									■								
58.06 Materials Science/Materials Engineering		G				□		G			□			□		□	
58.07 Metallurgy						●					□						
58.08 Survey Science									■		●						
57.00 Business, Commerce, Economics																	
57.01 Accounting, Accountancy	●	M		●		M	●	□				*	□		●	□	□
57.02 Administration, Administrative Studies	●			●		M	□	*			●	●	●	●	●	□	□
57.03 Administration, Geriatric Care Facilities			*			*											
57.04 Administration and Information Management																	
57.05 Administrative and Information Studies									■								
57.06 Administrative and Office Management Studies						*						*		●			
57.07 Agricultural Economics			□														
57.08 Business, Business Administration	●	M	M	□	G	□	□	□	■	*	●		□	□	□	□	□
57.09 Business Economics	●		●			●		□			●		G		●	□	
57.10 Commerce		●	■	●	●	●	●	●		●					□	□	M
57.11 Consumer Studies			□														
57.12 Economics	●	□	□	□	●	□	□	●		□	●	□	□	□	●	□	□
57.13 Engineering and Management						●	*	□				G					
57.14 Family Studies			□														
57.15 Finance	●	M				M	●	□		■			□	●	□	□	□
57.16 Hospitality & Tourism Management									●								
57.17 Hotel and Food Administration			●						✦								
57.18 Human Resources and Labour Relations						M											
57.19 Industrial, Labour Relations	M	M		●		M	■	□		G	*		□		✦	□	
57.20 International Business		M				M							G				
57.21 Management, Management Sciences, Business Management	●	□	●			G	□	□		■	G	*	G	□	□	□	□
57.22 Management Economics			●														
57.23 Marketing	●	M		●		M	●	□			G	*		G	●	□	□
57.24 Native Management and Economic Development												■					
57.25 Office and Administrative Studies						*				■							
57.26 Personnel and Administrative Studies	●	M		●		M					*	*	M	□			
57.27 Public Administration	□	□	□		✦	*	M	G		●	*	●	●	■		■	□
57.28 Resource Management			●				M				*					●	
57.29 Science & Business											*		●				

57. Social Sciences and Related Courses

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58.00 Canadian and International Studies																	
58.01 African Studies		M									●						●
58.02 American Studies											●						
58.03 Asian Studies	●	M				M					□					●	●
58.04 Canadian Studies	●	□	●	●	●	M	●	●			●	□	M		●	●	●
58.05 Chinese Studies						*					□					M	●
58.06 Classical Studies, Civilization	●	●	●		M	●	□	□			□	●	●	□	●	●	●
58.07 Czech and Slovak Studies											●						
58.08 Hungarian Studies											●						
58.09 Indian, Eskimo, Native Studies				*	●	*					●	□				M	
58.10 Japanese Studies																+	
58.11 Jewish Studies											●						*
58.12 Latin-American, Caribbean Studies								●			●	*				●	●
58.13 Middle and Near Eastern Studies											□	*	M				
58.14 Military and Strategic Studies									●								
58.15 Peace Studies						M							M				
58.16 Soviet, Russian Studies	●	□					□	●			□		●				
59.00 Food Sciences																	
59.01 Applied Human Nutrition			□							●							
59.02 Dietetics			□				●			●				●			
59.03 Food Science			□							●				●			
59.04 Nutritional Sciences			□							●	□			●			
60.00 History																	
60.01 Ancient History, Civilization	●	●				M	●	*			●	●	●				M
60.02 Assyriology											●						
60.03 Celtic Studies											●						
60.04 Egyptology											●						
60.05 History	●	□	□	□	□	□	□	□			□	□	□	□	□	□	□
60.06 Medieval, Renaissance Studies	●	M					□	□			□	*	●				M
60.07 Scottish Studies			G														
60.08 War Studies								G									
61.00 Home Economics																	
61.01 Clothing and Textiles, Design, Fashion									■					●			
61.02 Consumer Studies									●								
61.03 Family Studies, Family Science									●							●	
61.04 Home Economics																	
62.00 Political Science																	
62.01 Canadian Politics	□	*	M	*		M	M	*				*	*				M
62.02 International Affairs, Relations, Studies	□	G	M	*		M	M	*		□	*	*				●	●
62.03 International Development			●					G		●	*						
62.04 Political and Economic Science			M					*	□		*	●					*
62.05 Political Science, Politics	□	□	□	■	●	□	□	□	●	□	●	□	□	□	□	□	□
62.06 Social and Political Thought																	□
63.00 Regional Studies																	
63.01 Community, Urban, Regional Planning	●	G				*		G		●	G		□				G
63.02 Environmental Studies	●	M	□			G		*			□	□	●				G
63.03 Freshwater Science, Watershed Ecosystems												G	G				
63.04 Geography	●	□	□	●	●	□	□	□		●	□	□	□	□	□	□	□
63.05 Geography and Environmental Studies						*							G				
63.06 Industrial Development																	

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63.00 Regional Studies continued																	
63.07 Municipal Administration						*		G								+	
63.08 Northern Studies						M						*					
63.09 Resources Conservation			●								G	*	*	●			G
63.10 Rural Extension			□														
63.11 Social Demography						*		*					*	G			
63.12 Urban Studies, Urbanism/Urban Development	●	M	●			G		G			□	*	□	●	●	●	□
64.00 Social Sciences: Other																	
64.01 Anthropology		□	●	●	●	□	*	*			□	□	●	□	●	●	□
64.02 Archaeology	●			*		M	M	*			□	●	*	M	●		
64.03 Clothing and Textiles, Design			M														
64.04 Cognitive Science								●									
64.05 Communication, Culture and Society		G						●			●	*					
64.06 Consumer Studies			□														
64.07 Criminology		M					□	*			□					■	
64.08 Family and Social Relations			□														
64.09 Gerontology			●			●					G		M,G			+	
64.10 Health and Society																	●
64.11 Informational Publishing																+	
64.12 Labour Studies	M	M				●					●					+	●
64.13 Law		*					□	□			□			●		●	□
64.14 Law and Justice					●												
64.15 Law and Society																	●
64.16 Legal Studies													M				
64.17 Library Science				●							G			G			
64.18 Medicine, Morality and Law											●						
64.19 Organization and Career Development																+	
64.20 Psychology	●	□	□	□	●	□	□	□			□	●	□	□	□	□	□
64.21 Social Welfare					●	G									M		
64.22 Social Welfare Policy						G											
64.23 Social Work		G		□	●	●			■		G	*	●	□	G	□	□
64.24 Social Work (Native Human Services)					●												
64.25 Society, Technology and Values													M				
64.26 Sociology	●	□	□	□	●	□	□	□			□	●	□	□	●	□	□
64.27 Women's Studies	M	M	●		M		●	●			●	●	M	●	M	+	●

How to use this directory

To find a subject in the chart:
(1) locate the desired program name in this index;
(2) note the code number that follows this name, and
(3) turn back to the appropriate numerically coded listing in the chart.

For example, "Applied Geography" and a cross-reference, "*Geography, Applied*" are listed alphabetically in the index, each with the code number "45.01". This code number can be found in numerical sequence in the chart, where it will be seen that "Applied Geography" is offered at two of Ontario's universities.

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Administration, Health 50.08
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Applied Human Nutrition 59.01
Applied Linguistics, Linguistics 51.22
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Applied Microbiology 40.04
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Art, Fine Arts, Theatre 47.00
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Art, Studio 47.19
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Arts, Theatre 47.20
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Biological Engineering 46.05
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Biology, Cell 41.07
Biology, Cellular and Development 41.08
Biology, Fish and Wildlife 42.01
Biology, Fisheries 42.02
Biology, Human 42.03
Biology, Molecular Genetics 50.12
Biology and Biotechnology, Molecular 41.13
Biology, Marine/Marine Sciences 42.05
Biology, Wildlife 42.11
Biomedical Engineering 46.06
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Biotechnology and Genetic Engineering 41.05
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Cellular and Development Biology 41.08
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Chemical Engineering 46.08
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Communication, Speech 51.37
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Communications, Mass 51.23
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Communications, Organizational 51.26
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Computer Engineering 46.14
Computer Science 54.07
Computer Science and Psychology 54.08
Computer Studies 54.07
Computer Engineering 46.14
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Creative Writing, English Literature and 51.10
Criminology 64.07
Croatian 51.07
Crop Science 40.05
Culture and Society, Communication 64.05
Czech and Slovak Studies 58.07
Dance 47.06
Demography, Social 63.11
Dental Surgery 50.04
Dentistry 50.05
Design, Fashion, Clothing and Textiles 61.01, 64.03
Design, Industrial 45.10
Design, Interior 47.11
Design, Measurement and Evaluation 50.06
Design, Systems 46.35
Development, Growth and 50.07
Development, International 62.03
Disorders, Communicative 50.03
Dietetics 59.02
Drama, Dramatic Art 47.08
Drama-in-Education 47.07
Early Childhood Education 43.04
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Earth Science 45.05
Eastern Studies, Near and Middle 58.13
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Economic and Political Science 62.04
Economic Development, Native Management and 57.24
Economics 57.12
Economics, Agricultural 57.07
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Economics, Business 57.09
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Education 43.05
Education, Chemical 43.03
Education, Early Childhood 43.04
Education, Elementary 43.06
Education, Nursing 50.15
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Education, Secondary 43.09
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Electrical Engineering 46.15
Elementary Education 43.06
Energy and Fuel Science 56.03
Engineering 46.00
Engineering 46.16
Engineering, Aeronautical 46.01
Engineering, Aerospace 46.02
Engineering, Agricultural 46.03

Engineering and Applied Sciences 45
Engineering & Management 46.17/57.13
Engineering, Biological 46.05
Engineering, Biomedical 46.06
Engineering, Ceramic 46.07
Engineering, Chemical 46.08
Engineering, Chemical (Nuclear Option) 46.09
Engineering, Chemical/Biochemical 46.10
Engineering Chemistry 46.18
Engineering, Civil 46.11
Engineering, Civil and Computer Systems 46.12
Engineering, Computer 46.14
Engineering, Electrical 46.15
Engineering, Environmental 46.20
Engineering, Fuels and Materials 46.21
Engineering, Geological 46.22
Engineering, Industrial 46.24
Engineering, Management 46.25
Engineering and Management 46.17, 57.13
Engineering, Manufacturing 46.26
Engineering, Materials 46.27, 56.06
Engineering, Mathematics and 46.28
Engineering, Mechanical 46.29
Engineering, Metallurgical 46.30
Engineering, Mining 46.31
Engineering, Nuclear 46.32
Engineering Physics 46.19
Engineering, Survey 46.34
Engineering, Systems Design 46.35
Engineering, Water Resources 46.36
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English Literature and Creative Writing 51.10
English Rhetoric and Professional Writing 51.11
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Environmental Biology 40.07
Environmental Biology, Population and 41.14
Environmental Engineering 46.20
Environmental Health 45.06
Environment Science, Geography and 45.08
Environmental Studies 63.02
Environmental Studies, Geography and 63.05
Epidemiology and Biostatistics 41.10
Eskimo, Indian, Native Studies 58.09
Ethnomusicology, Music 48.02
Evaluation, Design, Measurement and 50.06
Evolution and Ecology 41.09
Exceptional Children, Special Education 43.10
Experimental Programs, Independent Studies 53.01
Family and Social Relations 64.08
Family Science, Family Studies 57.14, 61.03
Family Studies, Family Science 57.14, 61.03
Fashion, Design, Clothing and Textiles 61.01, 64.03
Film, Cinema 47.09
Finance 57.15
Fine and Applied Arts 47
Fish and Wildlife Biology 42.01
Fisheries, Biology 42.02
Food, Hotel Administration 57.17
Food Sciences 59.00
Food/Dairy Science 40.08
Food Science 59.03
Food Sciences, Nutrition 42.07
Forestry, Forest Technology 45.07
French Language and Literature 51.12
French/Teaching Specialization 43.07, 51.13
Freshwater Science, Watershed Ecosystems 63.03
Fuel and Energy Science 56.03
Fuels and Materials Engineering 46.21
General Arts 49.02
General Arts and Science 49
General Science 49.04
Genetic Engineering 41.05
Genetics 41.11
Genetics, Molecular 50.12
Geography 63.04
Geography and Environmental Science 45.08
Geography and Environmental Studies 63.05
Geography, Applied 45.01
Geological and Applied Earth Science 45.09
Geological Engineering 46.22
Geology 56.04
Geometry 54.09
Geophysics, Space Physics, Astrophysics 55.03
German Language and Literature 51.14
Geriatric Care, Administration 57.03
Gerontology 64.09
Graphic Communications Management 47.10
Greek Language and Literature 51.15
Growth and Development 50.07
Guidance Counselling 43.08
Health Administration 50.08
Health and Physical Education, Physical Education 44.04
(Health and Radiation) Physics 55.07
Health and Society 64.10
Health Care Practice 44.01, 50.09
Health, Environmental 45.06
Health, Occupational 46.33
Health Studies, Health Care Practice 44.01
Health Professions and Medical Sciences 50, 50.00
Hebrew 51.16
Hispanic Studies 51.17
History 60.00
History 60.05
History (Art) 47.03
History, Ancient 60.01
History of Science 41.12
Home Economics 61.00
Home Economics 61.04
Hospitality and Tourism Management 57.16
Horticulture 40.09
Hotel and Food Administration 57.17
Human Biology 42.03
Human Kinetics 42.04, 44.02
Human Nutrition, Applied 59.01
Human Resources and Labour Relations 57.18
Humanities and Related Courses 51
Hungarian Studies 58.08
Hydrology 40.10, 46.23
Illustration, Medical 47.12
Immunology, Microbiology 42.06
Independent Studies 53.00
Independent Studies, Experimental Programs 53.01
Indian, Eskimo, Native Studies 58.09
Industrial Design 45.10
Industrial Development 63.06
Industrial Engineering 46.24
Industrial, Labour Relations 57.19
Information Management, Administration and 57.04
Information Studies, Administrative and 57.05
Informational Publishing 64.11
Interior Design 47.11
International Affairs, Relations, Studies 62.02
International Business 57.20
International Development 62.03
Interpretation, Translation 51.38
Italian Language and Literature 51.18
Japanese 51.19
Japanese Studies 58.10
Jewish Studies 58.11
Journalism 51.20
Justice, Law and 64.14
Kinanthropology 44.02
Kinesiology 44.02
Kinetics, Human 42.04
Laboratory Science 56.05
Labour, Industrial Relations 57.19
Labour Relations, Human Resources and 57.18
Labour Studies 64.12
Landscape Architecture 45.11
Languages and Literature 51.00
Latin-American, Caribbean Studies 58.12
Latin Language and Literature 51.21
Law 64.13
Law and Justice 64.14
Law and Morality, Medicine 64.18
Law and Society 64.15
Legal Studies 64.16
Library Science 64.17
Linguistics, Applied Linguistics 51.22
Linguistics, Modern Languages and 51.24
Literature and Languages 51.00
Literature, Comparative 51.05
Literature, Renaissance 51.29
Logic 54.10
Management, Engineering and 46.17, 57.13
Management, Business 57.21
Management Economics 57.22
Management Engineering 46.25
Management, Graphic Communications 47.10
Management, Hospitality and Tourism 57.16
Management, Information Administration and 57.04
Management, Management Sciences, Business Management 57.21
Management, Native, and Economic Development 57.24
Management, Resource 57.28
Manufacturing Engineering 46.26
Marine Biology, Sciences 42.05
Marketing 57.23
Mass Communications 51.23
Materials and Fuels Engineering 46.21
Materials Engineering 46.27, 56.06
Materials Science 56.06
Mathematical and Physical Sciences 54
Mathematical Physics 55.04
Mathematics 54.00
Mathematics 54.11
Mathematics and Engineering 46.28
Mathematics and Physics 54.12
Mathematics for Commerce 54.14
Mathematics, Applied 45.02
Mathematics, Applied, and Theoretical Physics 55.09
Mathematics/CA/CMA/Business Administration Option 54.13
Mathematics, Pure 54.18
Mathematics, Teaching Option 44.03, 54.15
Measurement and Evaluation, Design 50.06
Mechanical Engineering 46.29
Medical Biophysics 50.10
Medical Illustration 47.12
Medicine 50.11
Medicine, Morality and Law 64.18
Medieval, Renaissance Studies 60.06
Metallurgical Engineering 46.30
Metallurgy 56.07
Meteorology 55.05
Microbiology, Immunology 42.06
Middle and Near Eastern Studies 58.13
Military and Strategic Studies 58.14
Mining Engineering 46.31
Modern Languages and Linguistics 51.24
Molecular Biology and Biotechnology 41.13
Molecular Genetics, Biology 50.12
Morality and Law, Medicine 64.18
Multicultural Studies 51.25
Municipal Administration 63.07
Museum Studies 47.13
Music 48.00
Music 48.01
Music Criticism 48.03
Music Education 48.04
Music, Ethnomusicology 48.02
Music History, Literature 48.05
Music Performance, Applied Music 48.06
Music Theatre 47.14
Music Theory, Composition 48.07
Music Therapy 48.08
(Native Human Services) Social Work 64.24

Native, Indian, Eskimo Studies 58.09
Native Management and Economic Development 57.24
Near and Middle Eastern Studies 58.13
Neurosciences 50.13
Northern Studies 63.08
Nuclear Engineering 46.32
Nuclear Option, Chemical Engineering 46.09
Nursing 50.14
Nursing Education 50.15
Nutrition and Food Sciences 42.07
Nutrition, Applied Human 59.01
Nutritional Sciences 59.04
Occupational Health and Safety 46.33
Occupational Therapy, Physical Therapy, Physiotherapy 50.16
Office and Administrative Studies 57.25
Office Management Studies, Administrative and 57.06
Operations Research 54.16
Optimization and Combinatorics 54.05
Optometry 50.17
Organization and Career Development 64.19
Organizational Communications 51.26
Orthodontics 50.18
Painting 47.15
Pathology 50.19
Pathology, Speech 50.24
Peace Studies 58.15
Personnel and Administrative Studies 57.26
Pharmacology 50.20
Pharmacology, Toxicology and 42.09
Pharmacy 50.21
Philosophy 52.01
Philosophy and Religious Studies 52.00
Photographic Arts 47.16
Physical Education and Recreation 44.00
Physical Education, Physical and Health Education 44.04
Physical Sciences: Other 56.00
Physical Therapy, Occupational Therapy, Physiotherapy 50.16
Physics 55.00
Physics 55.06
Physics and Mathematics 54.12
Physics, Chemical 55.02
Physics, Engineering 46.19
Physics (Health and Radiation) 55.07
Physics, Mathematical 55.04
Physics, Space; Geophysics, Astrophysics 55.03
Physics, Theoretical and Applied Mathematics 55.09
Physics (Theory) 55.08
Physiology 50.22
Physiotherapy, Occupational Therapy, Physical Therapy 50.16
Planning, Community/Urban/Regional 63.01
Plant Protection 40.11
(Plant Sciences) Botany 41.06
Polish Language and Literature 51.27
Political and Economic Science 62.04
Political Science 62.00
Political Science, Politics 62.05
Politics, Canadian 62.01
Population and Environmental Biology 41.14
Portuguese Language and Literature 51.28
Poultry, Science 40.03
Premedicine 41.15
Probability 54.17
Production, Theatre/Technical 47.21
Psychology 64.20
Psychology, Computer Science and 54.08
Public Administration 57.27
Public Health Nursing 50.23
Publishing, Informational 64.11
Pure Mathematics 54.18
(Radiation and Health) Physics 55.07
Radio and Television Arts 47.17
Recreation 44.05
Regional, Community, Urban Planning 63.01
Regional Studies 63.00
Religion, Religious Studies 52.02
Religious Studies, Religion 52.02
Renaissance Literature 51.29
Renaissance, Medieval Studies 60.06
Resource Management 57.28
Resources Conservation 63.09
Resources Development 40.12
Resources Management 40.13
Roman Studies 51.30
Rural Extension 63.10
Russian Language and Literature 51.31
Russian, Soviet Studies 58.16
Safety, Occupational 46.33
Sanskrit 51.32
Scenic Design 47.18
Science, Actuarial 54.01
Science and Arts, General 49.03
Science and Arts (Special) 49.01
Science and Business 57.29
Science, Animal/Poultry 40.03
Science, Applied 45.03
Science, Cognitive 64.04
Science, Computer 54.07
Science, Crop 40.05
Science, Dairy 40.08
Science, Earth 45.05
Science, Food 59.03
Science, Freshwater 63.03
Science, Fuel and Energy 56.03
Science, General 49.04
Science, Geological and Applied Earth 45.09
Science, History of 41.12
Science, Laboratory 56.05
Science, Materials 56.06
Science, Soil 40.14
Sciences, Biological/Biology 41.02
Sciences, Nutritional 59.04
Scottish Studies 60.07
Second Language Teaching 51.33
Secondary Education 43.09
Serbo-Croatian Language and Literature 51.34
Slavic Language and Literature 51.35
Slovak Studies 58.07
Social and Political Thought 62.06
Social Demography 63.11
Social Relations, Family and 64.08
Social Sciences and Related Courses 57
Social Sciences: Other 64.00
Social Welfare 64.21
Social Welfare Policy 64.22
Social Work 64.23
Social Work (Native Human Services) 64.24
Society, Health and 64.10
Society, Law and 64.15
Society, Technology and Values 64.25
Sociology 64.26
Soil Science 40.14
Soviet, Russian Studies 58.16
Spanish Language and Literature 51.36
Special Education, Exceptional Children 43.10
Speech Communication 51.37
Speech Pathology 50.24
Statistics 54.19
Strategic and Military Studies 58.14
Studio Art 47.19
Survey Engineering 46.34
Survey Science 56.08
Systems Design Engineering 46.35
Teaching, Arts and Science in 43.02
Teaching Option/Mathematics 44.03, 54.15
Teaching, Second Language 51.33
Teaching Specialization, French 43.07
Technology and Values, Society 64.25
Technology, Forest 45.07
Television Arts, Radio Arts 47.17
Textiles and Clothing, Design, Fashion 61.01
Theatre, Theatre Arts 47.20
Theatre, Technical/Production 47.21
Theology, Theological Studies 52.03
Theoretical Physics and Applied Mathematics 55.09
Therapy, Music 48.08
Therapy, Occupational, Physical, Physiotherapy 50.16
Tourism Management, Hospitality and 57.16
Toxicology 42.08
Toxicology and Pharmacology 42.09
Translation, Interpretation 51.38
Ukrainian Language and Literature 51.39
Urban, Community, Regional Planning 63.01
Urban Studies, Urbanism, Urban Development 63.12
Values, Society, Technology and 64.25
Veterinary Medicine 42.10
Virology 41.16
War Studies 60.08
Water Resources Engineering 46.36
Watershed Ecosystems, Freshwater Science 63.03
Welfare, Social 64.21
Welfare Policy, Social 64.22
Western Literature and Civilization 51.40
Wildlife Biology 42.11
Wildlife and Fish Biology 42.01
Women's Studies 64.27
Zoology 41.17

Brock University

St. Catharines

President: Dr. Terrence H. White

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	5 095	77
Part-time	4 679	617

Faculties, Schools, and Institutes
College of Education
Faculty of Arts and Sciences
Institute of Urban and Environmental Studies
School of Administrative Studies
School of Physical Education and Recreation
Concordia Lutheran Seminary (affiliated)

General Admission Requirements
The minimum requirement for admission to first-year studies is an OSSHGD/OSSD acceptable to the university, with six Grade 13/OAC credits and an overall average of 60%. However, higher averages are generally required, especially for selective programs. The 1988-89 requirement for non-limited enrolment arts and science programs at Brock was 68%.

One credit in mathematics is strongly recommended for students planning to major in administrative studies, economics, geography, psychology, sociology, or urban and environmental studies. An English credit is required for all programs except science programs, where it is recommended. Since admission requirements are subject to change, it is recommended that students contact the university with their specific inquiries.

Proof of Proficiency in English
International student applicants whose first language is not English are required to demonstrate proficiency in English, normally by presenting results showing a high level of success in the Test of English as a Foreign Language (TOEFL), from the Educational Testing Service, Princeton, New Jersey.

Normally, only those students with a score of 550 or better will be considered for admission. International student applicants whose first language is not English must write an English placement test prior to registration. Students who do not achieve an acceptable score may be required to enrol in a special English program and take a reduced course load.

Early Admission
Students are encouraged to apply as soon as possible. Those with the appropriate average and subjects who graduate from a semestered secondary school in January will be offered early admission when their final marks are confirmed. All others will be offered early admission in mid-June, based on their interim marks. See the section *General Information on Ontario Universities* for details of application procedures and deadlines.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: biochemistry, biological sciences.

Admission requirements
See *General Admission Requirements.* Also required are biology, chemistry, and either physics or mathematics; English is strongly recommended.

Education/Physical Education/ Recreation

• Bachelor of Education
The College of Education provides a one-year program leading to an Ontario Teacher's Certificate (OTC) and a Bachelor of Education (B.Ed.) degree. The basic admission requirement is an undergraduate degree from an approved university. Each student is assigned to a counselling group at the college, as well as to a teaching centre located in a regional school (Niagara/Hamilton area). Educational theory is applied through ten weeks of practice teaching at the primary/junior, junior/intermediate, or intermediate/senior grade levels.

Education courses are also available to undergraduate students. Consult the college calendar for details.

• Bachelor of Arts/Bachelor of Education (Child Studies)
For those who plan to teach at the nursery school, kindergarten, or primary/junior levels, Brock offers integrated academic and professional training in a concurrent B.A./B.Ed. degree program (limited enrolment). Child studies, a pass B.A. degree program, also focuses on the theoretical and the practical. Courses include child psychology and development, the family, schools and society, observational research, and the needs of the special child.

In co-operation with Niagara, Lambton, and Mohawk colleges of applied arts and technology, a credit-transfer formula has been devised. Students may now begin their studies at Niagara, Lambton, or Mohawk with the possibility of transferring credit from their college diploma program to Brock's degree program, or vice versa.

Admission requirements
A Grade 13/OAC English credit is compulsory. Enrolment is limited in the concurrent B.A./B.Ed. program; an overall average of at least 75% is required. Applicants may be required to attend an interview and provide a dossier for review. The B.A. program in child studies requires a minimum of 70% in six Grade 13/OAC credits.

• Bachelor of Physical Education

Three-year general/four-year honours
Brock's program is unique in that it emphasizes a movement approach to physical education, based primarily on Rudolph Laban's theories of movement. Students may select additional elective courses in the areas of adapted movement studies, coaching, child movement studies, health, recreation, and the psychology/sociology of sport.

• Bachelor of Recreation and Leisure Studies

Three-year general/four-year honours
This program of study is designed to meet the growing need for people to administer and develop programs in recreation and leisure. Students will be required to take core courses in the philosophy and principles of recreation, community recreation programming, administration and supervision, sociology, psychology, and interpersonal and organizational behaviour. All students take part in supervised practicum experiences and field work. Work terms are arranged in a number of areas, including such special populations as senior citizens, the young, and disabled persons.

Admission requirement
An acceptable Grade 13/OAC English credit is mandatory. Enrolment in year 1 physical education is limited to 160 delared majors, and year 2 is restricted to 100 students.

Fine and Applied Arts

• Bachelor of Arts

Three-year general/four-year honours
Available in: film studies, fine arts, music, theatre, visual arts, dramatic literature.

Admission requirements
See *General Admission Requirements.* A Grade 13/OAC English credit is mandatory. An audition is required for theatre majors. For solo performance in music, Royal Conservatory Grade 8 is the recommended prerequisite; an audition is also required. Students intending to major in visual arts are requested to submit a portfolio of their work. Fine arts students must fulfil, as a condition of graduation, the second-language requirement prescribed for all Humanities registrants (see *Humanities and Related Courses, "Admission requirements").*

Humanities and Related Courses

• Bachelor of Arts

Three-year general/four-year honours
Available in: Applied linguistics, Canadian studies, Canadian and European community studies, classics (Greek and Latin), English, Germanic and Slavic studies, history, liberal studies, philosophy, religious studies, romance studies (Italian, French, Spanish).

Admission requirements
See *General Admission Requirements*. All Humanities majors must fulfil a second-language requirement. At least one course in a language other than English must be completed unless the student is majoring in a foreign language (in which case an English credit fulfils the requirements).

Mathematical and Physical Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: biochemistry, biological sciences, chemistry, computer science and information processing, environmental science, geological sciences, mathematics, physical geography, physics.

Admission requirements
All programs – see *General Admission Requirements*; chemistry – also required are chemistry, physics, and two Grade 13/OAC credits in mathematics (English recommended); computer science and information processing – compulsory are one mathematics credit (minimum grade 65%), and an overall average of 65% (English recommended); environmental science – biology, chemistry, mathematics, and English recommended; geological sciences – also required are any two of biology, physics, geology, or chemistry (English and mathematics strongly recommended); mathematics – also required are two credits in mathematics (a third mathematics credit and a credit in English recommended); physics – also required are chemistry, physics, and two credits in mathematics (a third credit in mathematics and English strongly recommended); physical geography – Grade 13/OAC credit in science required, and credits in geography, mathematics, and English strongly recommended.

Social Sciences and Related Courses

• Bachelor of Administration

Honours program
Brock's administrative studies program is designed for students interested in business and government careers. Although the program is professionally oriented, it is based on social sciences disciplines, especially in the first two years. During the final two years of the honours program, students specialize in one of eight areas: accounting, computer science, finance, general management, marketing, organizational behaviour/personnel, public administration, or quantitative analysis. Lectures, seminars, case studies, and field work are involved.

Admission requirements
An acceptable Grade 13/OAC English credit is compulsory (mathematics recommended). A minimum average of 70% was required for entry into the honours program in 1988-89, and this standard is likely to rise.

Bachelor of Accounting
This program is offered both as a regular four-year program and on a co-operative work-study basis. It is fully accredited by the Institute of Chartered Accountants of Ontario.

Admission requirements
Regular program: Grade 13/OAC English and two mathematics with 70% in six credits for consideration. Co-op program: same as above, with at least 80% in six credits for consideration.

• Bachelor of Arts

Three-year general/four-year honours
Available in: Asian studies, child studies, communication studies, economics, geography, health studies, history, labour studies, politics, psychology, sociology, teaching English as a second language, and urban and environmental studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Business Economics

General program
Offered jointly by the departments of economics and administrative studies, this degree program is designed for students who wish to combine the study of economic and management theory.

Admission requirements
Grade 13/OAC English is compulsory (mathematics recommended).

• Bachelor of Science

Three-year general/four-year honours
Available in: urban and environmental studies (when combined with a science program).

Admission requirements
See *General Admission Requirements*. Biology, chemistry, English, and mathematics are recommended.

• Urban and Environmental Studies (Institute of)

General and honours
This program provides an interdisciplinary focus on urban and environmental studies combined with a sound background in the natural and social sciences. Combined degree programs are offered in conjunction with the departments of biological sciences, chemistry, economics, geography, geological sciences, politics, and sociology.

Admission requirements
Grade 13/OAC English is mandatory. Students officially enter the program at the beginning of second year, following a prerequisite first-year program in the collateral discipline of their choice.

Co-op program
The institute offers a co-op program that gives students the opportunity for practical experience in their chosen field, with degree credit. Co-op students are placed in government agencies, private firms, and other organizations involved in urban and environmental affairs. Full-time students who are majoring in urban and environmental studies and who have successfully completed year 2 are eligible for the program. Enrolment is limited.

Special Programs

• Extradepartmental Studies
The university offers a variety of degree credit courses that do not fall under the auspices of existing departments. Although one cannot major in extradepartmental studies, the courses may be taken for credit as electives in any program.

• General and Integrated Studies
Students who wish to diversify their studies over two or more subject areas, and who do not want to tie themselves to a combined major, may plan a general or an integrated program. All such programs must be approved by the appropriate dean or designate, and by the Registrar's Office.

• Certificate Programs
Brock's politics department offers a seven-course program leading to a certificate in public administration. This program is specifically designed for persons already employed in the public sector who wish to embark on part-time studies.

A certificate in urban and environmental studies is also available upon completion of six approved courses, with an overall average of at least 70%.

• Department of Applied Language Studies
Throughout the school year this department offers English as a Second Language (ESL) courses designed to develop the English speaking and writing ability of those for whom English is not a native language. Remedial (non-credit) and skill enhancement (single-term, half-credit) courses accommodate students at varying levels of English proficiency.

An Intensive English Langage Program (IELP) has been devised, which prepares international students in English language study and academic orientation skills, thereby facilitating the transition to attendance at a Canadian university. Fourteen-week courses run in the fall, winter, and spring, while a six-summer course is also available.

Brock's program in Teaching English as a Second Language (TESL), not to be confused with the Ontario Ministry of Education certificate program, includes a study of the changes that have taken place in the English language and present theories of ESL instruction and the related field of linguistics, practical application of English

language instruction, and the social, psychological, historical, and descriptive features of the English language.

The TESL program is offered in two stages. During three years, students take theoretical courses to earn a B.A. (TESL). The second stage is a one-year B.Ed. (TESL) program; under the supervision of instructors from the Department of Applied Language Studies, students enrol in courses at Brock's College of Education and receive practical training in the teaching of English as a second language.

For more information, contact the Director of the Department of Applied Language Studies at the university.

• February Headstart Program
In 1988 Brock experimented with this program, which offers a few courses beginning late in the afternoon from February 1 to July 1. It is offered to Grade 13 students who graduate in January or are taking a light load in their final Grade 13 semester. Applicants should have a 75% average and be recommended by their high school.

Residence 1988-89
Single room $1 815, double room $1 630. Three meal plans are available: 10 meals per week, $1 801; 14 meals, $1 757; 19 meals, $1 659.

Brock has four student residences. Students living in the on-campus Shaver, DeCew, and Queenston residences must purchase a meal plan. Approximately 730 students can be accommodated in total. Rooms are assigned on a random selection (lottery) basis; however, applicants with interim averages of 80% or higher are guaranteed a place in residence.

Scholarships and Financial Assistance
Brock entrance scholarships are automatically awarded on the basis of interim academic marks; no application is necessary. In 1988-89, students entering year 1 with an 82% average were awarded $500, and those with averages exceeding 90% received $1 500.

Government assistance is available to full- and part-time students in the form of grants and/or loans. (For more information concerning these programs see the introductory section on *Financial Assistance for Students*.)

Questions about scholarships, bursaries, awards, and loan programs should be directed to the Student Awards Office or the Registrar's Office.

Tuition Fees 1987-88
(Including incidental fees)
Full- and part-time students $306 per course. A full-year program consisting of five courses is $1 530.

International students: (new students) $992 per course. Five full courses $4 960.

Further Information
Specific inquiries regarding admissions should be directed to
Mr. Keith Rae
Associate Registrar – Admissions
or Ms. Linda Vanderburg
Admissions Officer
Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550, ext. 3434/3566

Information concerning student awards and loans may be obtained from
Mrs. Anne Stavina (OSAP inquiries)
Student Awards Office
or
Mr. Roger Reynolds (scholarship inquiries)
Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

General inquiries about Brock University, its programs, and its information sessions in Ontario high schools should be directed to
Mrs. Barbara Anderson
Ms. Ronika Fraser
External Relations Office
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550 ext. 3245

Carleton University

Ottawa

President: Dr. Robin H. Farquhar

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	13 006	1 211
Part-time	5 547	1 121

Faculties, Schools, and Institutes
Faculty of Arts
Faculty of Engineering
Faculty of Graduate Studies and Research
Faculty of Science
Faculty of Social Sciences
Institute of Biochemistry
Institute of Canadian Studies
Institute of Soviet and East European Studies
Institute of Women Studies
School of Architecture
School of Business
School of Computer Science
School of Continuing Education
School of Industrial Design
School of International Affairs
School of Journalism
School of Public Administration
School of Social Work

General Admission Requirements
For the qualifying university year: OSSD or OSSGD with a minimum 70% average. A minimum of ten credits taken at the Grades 11 and 12 advanced or enriched level must be presented.

For the first year of a degree program: OSSD including six OACs, or OSSHGD with a minimum 60% average (65% for honours and some professional programs).

Bachelor of Arts (from Grade 12)
OSSD or OSSGD with a minimum 70% average, including two of the following from Grade 12: English, a language other than English, and mathematics. A minimum of ten credits, taken at the Grades 11 and 12 advanced or enriched level, must be presented.

Bachelor of Arts (from an OSSD or OSSHGD)
An OSSD including six OACs or an OSSHGD with a minimum 60% average (65% for honours). For a major in mathematics, functions-relations and calculus or OAC algebra and geometry and OAC calculus must be presented. For majors in biology and economics, functions-relations and calculus or OAC algebra and geometry and OAC calculus are strongly recommended. For a major in psychology, English is recommended. For a major in Canadian studies, French is recommended.

Bachelor of Science (from Grade 12)
An OSSGD with a minimum 70% average and an appropriate preparation in mathematics (including Grade 12 mathematics), chemistry, and physics. A minimum of ten credits, taken at the Grades 11 and 12 advanced or enriched level, must be presented.

Bachelor of Science (from an OSSD or OSSHGD)
An OSSGD including six OACs or an OSSHGD with a minimum 60% average (65% for honours) and credits in functions-relations, calculus or OAC algebra and geometry and calculus, and two sciences. While biology, chemistry, geology, and physics are the subjects normally accepted as sciences, the university will consider other courses on an individual basis. Prospective students should note that, while only a 60% general average is required for admission, they should have at least 60% or third-class honours in the mathematics and science subjects offered.

Limited-Enrolment Admission
Applicants should note that because of limited enrolment in certain programs, holding the minimum admission requirements can only establish eligibility for selection by the university. This is particularly true for admission to the Bachelor of Architecture, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Engineering, Bachelor of Journalism, and Bachelor of Industrial Design programs.

Agricultural and Biological Sciences

• Bachelor of Arts

Three-year general/four-year honours
Available in: biology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: biology.

Four-year honours
Available in: biochemistry, biology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Engineering and Applied Sciences

• Bachelor of Architecture
A five-year program leading to a Bachelor of Architecture degree and offering a highly varied experience for the student in lectures, seminars, projects, and workshops.

Admission requirements
An OSSD including six OACs or an OSSHGD with a minimum 65% average and credits in functions-relations, calculus or OAC algebra and geometry and calculus, and physics. Applicants are required to submit a portfolio, a biographical résumé, and a 500-word typewritten statement outlining reasons for wishing to study architecture at Carleton. Submission of a portfolio required. Interviews will be given only at the discretion of the Admissions Committee.
Note: This is a limited-enrolment program.

• Bachelor of Engineering
Four years, including one-and-one-half years of foundation studies in mathematics, physics, chemistry, and engineering sciences and two-and-one-half years of specialization in civil, electrical, or mechanical engineering. For computer-systems engineering the first, and to some extent the second, year provide the foundation studies, followed by two years of specialization. Aerospace engineering students follow mechanical engineering until the final year and a half, when they specialize in one of two streams of aerospace studies.

Grade 12 requirements for admission
OSSD or OSSGD with a minimum 70% average and an appropriate preparation in chemistry, physics, and Grade 12 mathematics. A minimum of ten credits taken at the Grades 11 and 12 advanced or enriched level must be presented.

OSSD or OSSHGD requirements for admission
An OSSD including six OACs or an OSSHGD with a minimum 65% average and credits in OAC algebra and geometry and calculus, or functions-relations, calculus, chemistry, and physics.
Note: This is a limited-enrolment program.

• Bachelor of Industrial Design
A four-year program, industrial design embraces all aspects of human environment that are conditioned by industrial production.

Admission requirements
OSSD including six OACs or an OSSHGD with a minimum 65% average and credits in OAC algebra-geometry and calculus, or functions-relations, calculus, chemistry, and physics. Applicants may be requested to attend an interview. Submission of a portfolio is required.
Note: This is a limited-enrolment program.

Fine and Applied Arts

• Bachelor of Arts

Three-year general/four-year honours
Available in: architecture (honours only), art history, film studies, musi.c.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Music

Four-year honours
A four-year program designed principally to promote an intellectual and aesthetic understanding of music within a broad liberal arts framework. Although individual performance instruction is required throughout the four years as an adjunct to academic study, the areas of major concentration offered are music history/musicology and theory/composition.

Admission requirements
An OSSD including six OACs or an OSSHGD with a minimum 65% average. It is expected that students entering the B.Mus. program would have Grade 13 or OAC music, the appropriate level of conservatory music, or both.

• Diploma in Music
This five-course program is designed to attract individuals who have a background in performance on a musical instrument or voice, and/or have been involved in the teaching of music, and who desire additional academic qualifications.

Admission requirements
An OSSD including six OACs or an OSSHGD with an adequate level of performance. Special consideration will be extended, under mature matriculation regulations, to other applicants.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: art history, classical civilization/classics (Greek, Latin), English, film studies, French, German, Italian, linguistics, mass communication, music, philosophy, religion, Russian, Spanish.

Four-year honours
Available in: architecture, art history, classical civilization/classics (Greek, Latin), English, film studies, French, German, Italian, linguistics, mass communication, philosophy, religion, Russian, Spanish.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Journalism

Honours program
The aim of this four-year program is not to train technologists, but to give students the ability.to investigate, interpret, and communicate intelligently in any of the mass media. A student can also combine honours level work in arts, science, or commerce with professional training in journalism.

Admission requirements
OSSD including six OACs, or OSSHGD with a minimum 65% average.
Note: This is a limited-enrolment program.

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: computer mathematics, mathematics.

Four-year honours
Available in: computer mathematics, mathematics, operations research, statistics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Computer Science
A four-year honours program in computer science. The program is designed with five areas of specialization: software, hardware, theory of computing, scientific applications, and management and business systems. A five-year co-op program is also available.

Admission requirements
An OSSD including six OACs or an OSSHGD with a minimum 65% average, including OAC algebra and geometry and calculus or functions-relations and calculus. Physics is required for the hardware and scientific applications areas of specialization and is recommended for the remaining areas.
Note: This is a limited-enrolment program.

• Bachelor of Science

Three-year general/four-year honours
Available in: biology, chemistry, computer mathematics, geology, integrated science studies†, mathematics, operations research, physics, statistics (honours only).

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: Canadian studies*, classical civilization/classics (Greek, Latin)*, criminology and criminal justice, directed interdisciplinary studies, economics, geography, history*, law, political science, psychology, sociology.

Four-year honours
Available in: anthropology, Canadian studies, classical civilization/classics (Greek, Latin)*, criminology and criminal justice, directed interdisciplinary studies, economics, geography, history*, law, political science, psychology, sociology, Soviet and East European studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

†See *Special Programs* section for details.
*For the purposes of Carleton University, this course falls under the Humanities heading.

• Bachelor of Commerce
A four-year honours program in management studies. The objective of the program is to prepare students for management positions in business or government. Some specialization is available in accounting, finance, marketing, business systems, and labour and industrial relations.

Admission requirements
OSSD including six OACs or an OSSHGD with a minimum 65% average and credits in OAC algebra and geometry and calculus or functions-relations and calculus.
Note: This is a limited-enrolment program.

• Bachelor of Public Administration
A four-year honours program that provides a general education that will familiarize public servants and students contemplating a career in government service with the main organizational, political, economic, and legal elements of the public service environment.

Admission requirements
OSSD including six OACs, or OSSHGD with a minimum 65% average.
Note: This is a limited-enrolment program.

• Bachelor of Arts

Four-year honours
Available in: geography, psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Special Programs

• Certificate in English Language and Composition
This five-course in-service program is intended primarily for practising teachers who wish to upgrade their knowledge of those areas of language and writing theory that underlie the new Ontario Guidelines and support documents.

Admission requirements
A university degree or teaching certificate.

• Certificate in French Language Studies
A six-course program to permit people with some knowledge of French to achieve a high level of proficiency.

Admission requirements
OSSD including six OACs, or OSSHGD with a 60% overall average and facility in French to completion of an intermediate level university course.

• Certificate in Law Enforcement Studies
This six-course program is designed primarily for persons employed in the areas of law enforcement, national security, or corrections who wish to take university courses.

Admission requirements
An OSSD including six OACs or an OSSHGD with a 60% overall average, or mature applicant.

• Certificate in Public Service Studies
A six-course program designed for public employees who seek special training in public service studies at the undergraduate level.

Admission requirements
An OSSD including six OACs or an OSSHGD with a 60% overall average, or mature applicant.

• Certificate in the Teaching of English as a Second Language
A five-course program including theory and practice in teaching English as a second language and various optional courses.

Admission requirements
An undergraduate degree in linguistics or another subject, or extensive experience in teaching.

• Diploma in Music
This five-course program is designed to attract individuals who have a background in performance on a musical instrument or voice, and/or have been involved in the teaching of music, and who desire additional academic qualifications.

Admission requirements
An OSSD including six OACs or an OSSHGD with a 60% overall average, or mature applicant.

• Integrated Science Studies
A Bachelor of Science major or honours program designed for those who wish to develop an understanding of the scientific method and at the same time to acquire a knowledge of the humanities, social sciences, or certain selected parts of engineering.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Residence 1987-88

Single rooms	$3 325
Double rooms	$2 995

Scholarships and Financial Assistance
Government assistance is available to full- and part-time students in the form of grants and/or loans.

For further information concerning government assistance see the introductory section on *Financial Assistance for Students* or check with the university's Student Awards Office. The Student Awards Officer will also have details on bursaries and scholarships offered by the university.

Tuition Fees 1987-88
(including incidental fees)

Full-time students
Arts, commerce, public administration, journalism, music, science, computer science $1 558.25
Architecture, engineering, industrial design $1 674.25
Qualifying year $1 963.25

Part-time students (per subject, including incidental fees)
Degree and non-degree programs $304.56 full credit, $152.28 half-credit

Further Information
Inquiries about admission should be directed to
Office of Admissions
Room 315, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-3730
Toll-free (Ont., Que., Maritimes) 1-800-267-8858

Inquiries about student awards and loans should be directed to
Awards Office
Room 202, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-3735

Inquiries about university information programs for secondary schools should be directed to
Student Liaison Office
Room 315, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-2738
Toll-free 1-800-267-8858

University of Guelph

Guelph

President: Brian Segal

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	11 337	1 164
Part-time	2 030	233

Faculties, Schools, and Institutes
College of Arts
College of Biological Science
College of Family and Consumer Studies
College of Physical Science
College of Social Science
Ontario Agricultural College
Ontario Veterinary College
Faculty of Graduate Studies
Office of Research
University School of Rural Planning and Development
University School of Continuing Education
Office for Educational Practice
Geulph Centre for Equine Research
School of Engineering
School of Hotel and Food Administration
School of Human Biology
School of Landscape Architecture
Centre for Food Security
Centre for International Programs
Gerontology Research Centre
Centre for Information Technology Research
Centre for Genetic Improvement of Livestock

General Admission Requirements
Applicants should qualify for an OSSHGD with standing in specific Grade 13 subjects or an OSSD with standing in specific OACs as required by the particular degree program.

Ontario secondary school students seeking admission to the first semester of all programs leading to a bachelor's degree at the University of Guelph may present either an OSSHGD or OSSD.

Students presenting the OSSD must include a minimum of six OACs. An overall average of 60% in six OACs is the minimum required for admission consideration. Until further notice, special subject requirements for particular degree programs will remain the same as those currently prescribed for admission from Ontario Grade 13. The OSSHGD and the new OSSD will be given equal credit for admission purposes.

It should be noted that the length of time taken by an applicant to complete the OSSD will not of itself be a determining factor in making decisions on admission. Students completing the OSSD in four years will not be given preference in admission over those completing the program in five years or less, providing the latter have proceeded normally through the program without repeating any courses or credits.

Bachelor of Arts
Year 5 subject requirements – one credit in English, five additional credits. Students are strongly encouraged to offer a credit in mathematics or a credit in French (or another language) among the additional five credits. Also, students planning to enter programs in the social or mathematical sciences are advised to include a mathematics course such as calculus, algebra, functions and relations, or OAC algebra and geometry.

Semester one is taken common by both honours and general students. Thus the selection of a final program may be delayed until the second semester. Semester one students must normally take one 100 level course from each of two different departments in the College of Arts and one 100 level course from each of two different departments in the College of Social Science. The general program is designed to provide a sound liberal education, allowing for varying degrees of specialization in one or more subjects and requiring intensive study at a senior level. To graduate from this program a student must pass 30 courses, including at least 8 courses at the 300 level or above, and at least 60% of all course attempts must be at a grade of "C" or better.

Students in the general program may choose from three patterns of study:
1. *Major:* To graduate with a single major, a student must successfully complete at least 10 semester courses in that subject.
2. *Double Major:* Students may graduate with two subjects as majors by passing at least 10 semester courses in each subject.
3. *Individual Study Pattern:* Normally students choose a pattern of study from those offered in the B.A. program. In some instances a student, because of special needs or academic interests, may wish to draw on the resources of several disciplines in a way not provided for in the regular offerings. Students must ensure that at least 18 of the required 30 courses are from courses offered by the College of Arts, the College of Social Science, the Department of Computing and Information Science, and the Department of Mathematics and Statistics.

The honours program, consisting of eight semesters, is designed to provide intensive study in one or two subject areas while at the same time ensuring a complementary breadth of education. To graduate from this program a student must sucessfully complete 40 semester courses, including at least 14 courses at the 300 level or above. There are three main patterns of study a student may follow:
1. *Specialized Honours:* requiring successful completion of at least 22 semester courses in one major subject area.
2. *Major and Minor Honours:* requiring a combination of specializations in two subject areas totalling 28 successfully completed semester courses, divided between a major and a minor concentration.

3. *Combined Honours:* requiring successful completion of at least 14 semester courses in each of two subjects chosen.
4. *Double Major Honours:* requiring successful completion of at least 16 semester courses in each of two subjects chosen.

Bachelor of Science
One credit in calculus, one credit in chemistry, two credits in biology, physics, and algebra-geometry or functions and relations, and two additional credits.

Students contemplating admission to the Doctor of Veterinary Medicine program should include the following courses in their final year of study: calculus, algebra-geometry or functions and relations, biology, physics, and chemistry.

Students in the general and honours Bachelor of Science programs take the same basic courses in the first and second semesters. Thus the final selection of a general or a specific honours program may be delayed until the third semester. The general program offers a liberal education, whereas in the honours program the student has the following options: single major; major and minor; biological science; physical science; specialized programs. Course options in the general (six-semester) program and honours (eight-semester) program are given under specific subject areas. See the calendar for full details.

Innovations in Secondary School Subjects
The university will consider, for credit toward admission, courses regarded as innovations in the Ontario secondary school system if they are approved by the Ontario Ministry of Education.

Fall Semester Admission
Studies begin in September. Fall semester admission to all programs may be granted to candidates who satisfy in full the general entrance requirements.

Winter Semester Admission
Studies begin in January. Under an agreement with the Ontario Ministry of Education, the University of Guelph may admit to the first semester students who are in the process of completing their final secondary school credits for graduation in January. To be considered, students must show promising scholastic ability, must be enrolled in their senior secondary school credits for the first time, and must present an estimated minimum overall average of 64%. These students are admitted directly from secondary school and begin study at the university in early January. The following degree programs offer January admission: arts, sciences, agriculture, human kinetics, engineering, family and consumer studies. Candidates who have, for various reasons, delayed entry to the university may also apply at this time. Admission may only be granted to candidates who satisfy in full the general program entrance requirements. The university will grant the University of Guelph Matriculation Certificate should the student not be eligible to receive the OSSHGD. Students should refer to the undergraduate calendar or admissions handbook for complete details about winter admission.

Spring Semester Admission
Studies begin in May. Spring admission to the arts, science, human kinetics, agricultural science, and family and consumer studies programs may be granted to candidates who satisfy the general entrance requirements. Students who are in the process of completing their final secondary school credits for graduation in June may be considered if they meet the following criteria: an estimated minimum overall average of 64%; demonstration of promising scholastic ability; enrolment in senior secondary school credits for the first time. Students accepted under the Spring Admission Plan are granted an OSSGD or the University of Guelph Matriculation Certificate. An OSSHGD or OSSD will only be granted when students can arrange a suitable timetable with the principal of their school to complete the required credit hours before spring semester registration. Students who complete secondary school in January may wish to apply.

Summer Sessions
Studies begin in May or July, and each session is six weeks in length. Admission to arts, science, human kinetics, family and consumer studies, agriculture, and general studies may be granted to candidates who satisfy the general entrance requirements in full. For the May session, admission may be granted to candidates who satisfy the conditions as outlined under "Spring Semester Admission" (see above). Candidates applying to the July summer session should enter "A86" as the expected enrolment date.

Early Acceptance
(Acceptance for September on the date agreed to by the Ontario Universities Council on Admissions. See the *General Information on Ontario Universities* section of this publication.)

Early acceptance to all programs may be granted to candidates who satisfy the general entrance requirements in full, are enrolled in their final year for the first time, and have an estimated minimum average of 60%.

Agricultural and Biological Sciences

• Bachelor of Biological Sciences

Three-year general
Available in: biological science areas, physical science areas.

Four-year honours (specialization)
Available in: botany, ecology, entomology, entomology with apiculture, fisheries biology, food science, human biology, marine biology, microbiology, molecular biology and genetics, nutritional sciences, physical geography, plant science and plant biotechnology, psychology, toxicology, wildlife biology, zoology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Science in Agriculture

Honours program
This eight-semester degree program offers six different professional development areas. Careers may be pursued in the areas of environmental management, resource use, animal production systems, plant production systems, and food product development. Successful entry into one of these career areas can be accessed through the following majors: agricultural economics, animal and poultry science, crop science, environmental biology, horticultural science, horticultural science and business, plant protection, resources management, and soil science. Students will take a common curriculum during the first two semesters and then select a major before the third semester.

The curriculum also provides an opportunity for students to elect, if they so wish, a minor that will complement their selection of a major. Students wishing to concentrate their elective courses in a particular area are advised to consult the schedule of studies for the various minors available in the program.

Minors are available in agricultural business, animal science, applied climatology, biotechnology-agriculture, dairy science, international agriculture, resources economics, resources management, and rural extension.

Admission requirements
OAC English I, calculus, two credits from a second mathematics, biology, chemistry, or physics, and two additional credits.

Although students are required to have the credits specified in the admission requirements, they should take the following credits to obtain optimum preparation in their final year: calculus, algebra and geometry or functions and relations, chemistry, physics, biology, and English.

Applicants who lack one specific Grade 13 subject requirement, but who have a minimum of 70% overall final year standing, are also encouraged to apply for admission.

• Associate Diploma in Agriculture
This four-semester program is designed to give students an appreciation of science and its application to agriculture. After a common first semester, students specialize in one of three divisions: agri-business, farm operators and managers, or horticulture with an emphasis in fruit and vegetable production, landscape, or turf management.

Admission requirements
The minimum academic requirement for admission is an OSSGD, OSSD, or equivalent.

Applicants should include credits in mathematics and English from the senior division at the Grade 12 graduating level. Applicants who do not meet the English or mathematics requirement, but who otherwise have a good academic record and agricultural experience, may be considered for admission.

A final decision on the admissibility of an applicant will be based on a review of academic performance and, at the request of the Admission Committee, the Background Information Form for the Associate Diploma in Agriculture program.

• Doctor of Veterinary Medicine
Eight semesters; course of study prescribed. Students are selected for admission to a pre-veterinary year of two semesters, from which they may proceed to the first semester of the program leading to the Doctor of Veterinary Medicine degree, veterinary medicine program. Therefore, candidates should ensure that they satisfy the admission requirements as specified for the pre-veterinary year.

Application procedure
Application forms are available upon request from the Admissions Section, Office of the Registrar, Level 3, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Application forms must be submitted no later than February 1 of the year for which admission to the pre-veterinary year is sought.

Academic requirements
Applicants who have completed one or more academic years of an Ontario university level program or the equivalent, including the following specific course requirements, are eligible to apply to the pre-veterinary year: biological sciences –two semester courses (zoology recommended); chemistry – two semester courses (organic recommended); mathematics – one semester course; physics – one semester course (biophysics recommended); humanities or social sciences – two semester courses; electives – two semester courses.

Education/Physical Education/Recreation

• Bachelor of Science in Human Kinetics

Honours program
Eight semesters. A human kinetic studies program with emphasis on the areas of scientific application to human activity. Based firmly on the biological and physical sciences; studies include anatomy, biomechanics, genetics, nutrition, physiology, psychology, and sociology. Interdisciplinary subject-matter includes kinesiology, exercise physiology, and the scientific measurement of human performance.

Admission requirements
One credit in calculus, one credit in chemistry, two credits from algebra and geometry or functions and relations, biology, physics, and two additional credits (biology strongly recommended).

Applicants are advised to include algebra and geometry and one credit in English in their final year program of studies. Applicants who lack one specific final year subject requirement, but who have a high overall academic standing, are also encouraged to apply for admission.

Engineering and Applied Sciences

• Bachelor of Landscape Architecture

Honours program
Ten semesters. The first four semesters are largely devoted to study and exploration in basic design, landscape design, urban planning, and the natural sciences. In the final six semesters emphasis is placed on professional courses in landscape design, planning, and construction, but with the addition of social sciences and humanities.

Admission requirements
One credit in biology, English, and mathematics are required. One credit from the following group: geography, visual arts, French or *français* or another language, and two additional credits. Chemistry and physics recommended.

Applicants must complete background information sheets that will be forwarded to them after the April 1 application deadline. Interviews may be required. A portfolio of related creative work must be submitted.

Application procedure
Application forms are available from the Admissions Section, Office of the Registrar, Level 3, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Deadline for the submission of applications is April 1 of the year for which admission is sought. Academic transcripts and other supporting documents must be submitted no later than June 15, following the April 1 deadline for submission of the applications.

• Bachelor of Physical Sciences

Four-year honours (specialization)
Available in: applicable mathematics, applied biochemistry, applied chemistry, biochemistry, biophysics, chemical physics, chemistry, computing and information science, earth science, mathematics, physics, statistics, theoretical physics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Science in Engineering

Honours program
Eight semesters. Students in this program obtain a liberal engineering education that enables them to undertake the solution of engineering problems of the biological world and the associated environment of soil, water, and atmosphere. Core subjects, combined with liberal elective opportunities, give an understanding of the environment in which food is produced and human activity takes place. This understanding is used to develop the capability to design machines, structures, and systems to operate within the environment.

Students must select a major area of study in one of the following: agricultural engineering, biological engineering, water resources engineering. Guelph's baccalaureate programs in engineering are fully accredited by the Canadian Accreditation Board of the Canadian Council of Professional Engineers.

Admission requirements
Calculus, algebra and geometry, physics, chemistry, and two additional credits.

Fine and Applied Arts

• Bachelor of Arts

Three-year general/four-year honours
Available in: drama, fine art, music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: Classical studies, English, French, German, Greek, history, humanities, Italian, Latin, philosophy, Spanish.

Four-year honours
Available in: classical studies, English, French, German, history, Italian, Latin, philosophy, Spanish.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: computing and information science, mathematics, statistics.

Four-year honours
Available in: computing and information science, mathematical science (minor honours only), mathematics, statistics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: chemistry, mathematical science, physics.

Four-year honours
Available in: applicable mathematics, applied chemistry, biochemistry, biophysics, chemical physics, chemistry, computing and

information science, earth science, mathematics, physics, science, statistics, theoretical physics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Applied Science
(College of Family and Consumer Studies)

Honours program
Students in the eight-semester honours program in family and consumer studies (Bachelor of Applied Science) select one of five major areas of study: family and social relations, consumer studies, applied human nutrition, child studies, or gerontology. The program is interdisciplinary and provides a distinctive and integrated focus of applied science in each of the six majors. Courses from the traditional disciplines in other colleges of the university are coupled with courses offered by faculty members in the College of Family and Consumer Studies whose own backgrounds reflect the interdisciplinary nature of the college. Laboratory, practicum, and field experiences enhance the students' opportunities to grasp the contributions of the social, physical, and biological sciences to significant facets of human behaviour and experience, whether in family, community, or educational settings or in the marketplace.

Students may enter the program in the spring, fall, or winter semesters. Upon admission or following one or two semesters in the program, students select one of the six major areas of study.

Admission requirements
One credit in mathematics (calculus strongly recommended), one credit in chemistry or biology, one additional credit chosen from the following group: English, *anglais*, *français*, biology, chemistry, mathematics, or physics, and three additional credits.

Applicants are advised to include calculus in their final year program of studies. Students are advised to consult the schedule of studies for the B.A.Sc. program in the university calendar to determine the appropriate selection of OAC credits for the major area of proposed study.

• Bachelor of Arts

Three-year general
Available in: Canadian studies, economics, geography, international development, management economics, mathematics, political studies, psychology, settlement studies, sociology/anthropology, women's studies.

Four-year honours
Available in: biology (minor honours only), business administration (minor honours only), Canadian studies (major or minor honours only), consumer studies (minor honours only), economics, environmental studies (minor honours only), family and child studies (minor honours only), geography, information systems and human behaviour, international development, management economics, mathematical sciences (minor honours only), political studies, psychology, rural extension (minor honours only), settlement studies (minor honours only), sociology/anthropology, women's studies (minor honours only).

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Four-year honours
Available in: geography, psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Commerce (Hotel and Food Administration)

Honours program
Eight semesters. The program in the School of Hotel and Food Administration is of an interdisciplinary nature, drawing on courses in the humanities, social sciences, food sciences, and physical and biological sciences. Work experience in the hospitality industry is required for students to graduate from this program.

Students in the hotel and food administration program may select one of five majors: agriculture business, hotel and food administration, institutional food-service management, management economics in industry and finance, and marketing.

Admission requirements
One credit in mathematics (calculus strongly recommended), one credit chosen from the following group: English, chemistry, or a second language, and four additional credits. Applicants who wish to obtain the optimum preparation are advised to include chemistry and English in their final year program of studies. Applicants to hotel and food administration and institutional food service management must complete an information sheet outlining hospitality experience.

Special Programs

• General Studies Program
The objective of the general studies program is to provide persons the opportunity to take university courses before registering in a specific degree program or to take university courses for general interest with no immediate intention of registering in a degree program. The general studies program does not lead toward a specific undergraduate degree at the University of Guelph. Students may register for full- or part-time studies. Contact Admissions, Office of the Registrar.

Admission requirements
Applicants must be at least 21 years of age and have been out of secondary school for at least two years.

For additional information contact
School of Part-Time and Continuing Education
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120 ext. 3494

• Co-operative Education Programs
Co-operative education formally integrates the student's academic study with work experience in co-operating employer organizations. The usual plan is for the student to alternate periods of study with periods of work in appropriate fields of business, industry, government, social services, and the professions. Progress on the job is monitored by the institution and is supervised and evaluated by both the employer and the institution.

Programs offered
Co-operative education programs are available in agricultural business, agricultural economics, agricultural engineering, animal and poultry science, applied biochemistry, applied chemistry, applied microbiology, biological engineering, child studies, computing and information science, consumer studies (food), crop science, dairy science, family and social relations, food science, gerontology, horticulture, microbiology, physics and biophysics, psychology, resources management, soil science, and water resources engineering.

Admission requirements and information
Applicants may apply to the co-op program at two points: directly from secondary school or, if spaces are available, in the third or fourth semester. Transfer students from another university, either from traditional academic or co-op programs, should apply to the admissions office. High school students entering co-op must have an average of at least 70% and may be asked to complete a background information sheet. University students are normally expected to have a 70% average in the semester prior to admission. An interview to assess motivation, maturity, determination, poise, communication skills, and leadership attributes may be required. To participate in the program, applicants must be either Canadian citizens or landed immigrants. Enrolment in the programs will be limited, and the number of students admitted is generally dependent on the employment market.

For additional information contact
B.A. McCallum
Associate Director,
Work Study Programs
Counselling and Student Resource Centre
University of Guelph
Guelph, Ontario N1G 2W1

Residence Fees 1987-88

Single students
For all but apartment-style residences (two semesters)
Single room $1 970
Double room $1 790

Married students (townhouse)
Furnished $400 per month
Unfurnished $390 per month

Meal plans (per semester)

	Fall	Winter
Large plan	$825	$835
Medium plan	$750	$760
Small plan	$680	$690

Students accommodated in all but apartment-style residences are required to select one of the above meal plans. These plans are also available to students accommodated in apartment-style residences and to those living off campus. A semester, for room and board purposes, will terminate on the date announced for conclusion of examinations.

Tuition Fees 1987-88
(Including incidental fees.) The tuition fees listed apply to Canadian students and those with permanent resident status. Fees are subject to change.

Full-time students per semester:
Associate Diploma in Agriculture $300.10
Bachelor of Applied Science $773.10
Bachelor of Arts $754.10
Bachelor of Commerce $773.10
Bachelor of Landscape Architecture $783.10
Bachelor of Science $773.10
Bachelor of Science (Agriculture) $777.10
Bachelor of Science (Engineering) $835.10
Bachelor of Science (Human Kinetics) $773.10
Doctor of Veterinary Medicine (1st term) $827.10
General Studies $754.10

Further Information
Admission inquiries should be directed to
Admissions, Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 821-2130

Information and application forms for student awards and loans may be obtained from
Awards, Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1

Inquiries regarding university information programs or campus visits for secondary schools should be directed to
Admissions, Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 821-2300 or 821-2130

Lakehead University

Thunder Bay

President: Dr. R.G. Rosehart

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	3 726	130
Part-time	2 105	142

Faculties, Schools, and Institutes
Faculty of Arts and Science
Faculty of Professional Studies
School of Business Administration
School of Education
School of Engineering
School of Forestry
School of Nursing
School of Outdoor Recreation
School of Physical Education and Athletics

General Admission Requirements
The standard for admission to a degree program at Lakehead University is the successful completion of an OSSHGD or OSSD including six OACs or equivalent, with a minimum overall average of at least 60%. In addition to obtaining this general level of academic maturity, candidates are required to include in their senior high school programs certain subjects required from specific majors. For example, Grade 13/OAC English is required for a Bachelor of Arts program. These specific requirements are noted in the university's calendar.

Bachelor of Arts
Admission to first year of the arts degree programs requires satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English in their program. Honours Bachelor of Arts – music – music majors should have Grade 8 level of performance or the equivalent. Honours Bachelor of Arts – fine arts (visual arts) – in order to determine the ability and potential of a student seeking entry into the program a portfolio must be submitted to the Department of Visual Arts by the end of May for September admission. French majors – one Grade 13/OAC in French required. B.A. (geography)/Honours Bachelor of Outdoor Recreation – same as arts. Admission to a degree program in the Department of Mathematical Sciences requires credit in English, calculus, and at least one of algebra, algebra and geometry, and finite mathematics or functions and relations, in addition to other admission requirements. Honours Bachelor of Social Work – same as arts.

Bachelor of Science
Admission to the first year of the science degree program requires satisfactory completion of an OSSHGD or OSSD, including six OACs, or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC English and calculus, as well as three courses selected from algebra, algebra and geometry, functions and relations, finite mathematics, chemistry, physics, and biology. Students considering a science program should include in their secondary school program a pattern of subjects consistent with their planned university major. Applicants to the Bachelor of Science (natural science) program may be eligible for admission without some of the course requirements listed above. Admission to a degree program in the Department of Mathematical Sciences requires credit in at least one of algebra, algebra and geometry, and finite mathematics or functions and relations, in addition to other admission requirements.

Diploma programs
Admission to diploma programs is based upon successful completion of an OSSD or OSSGD based on an Ontario Grade 12 advanced level program (or equivalent). The overall average must be at least 60%. Certain diploma programs also require specific subjects at the Grades 11 and 12 advanced levels for admission.

Applicants with high standing in general Grade 12 programs will be considered on an individual basis. All other applicants to diploma programs, with special circumstances, will be considered on an individual basis. Please note that Ontario students applying for admission to engineering technology programs from Grade 13 or with an OSSD and six OACs will be considered for the second year of the program if they meet the subject and grade requirements. See the program listing in the *Engineering and Applied Sciences* section for exact requirements.

Special Consideration
An applicant who lacks a specific required subject for his or her planned program or major may be considered if the level of achievement in associated subjects is substantially better than average. Each student in this category is considered on an individual basis.

Extraordinary Admission
The university will consider applicants for admission who have been away from formal education for at least two years. Applicants will likely be interviewed by an Admissions Committee representative and may be required to provide evidence of their proficiency in English. Each case is considered on its own merits.

Admission to February Session of First-Year University
Lakehead University offers courses at the first-year university level from February to the end of April. The program allows the

completion of up to three full credits, and students may continue with the spring session or summer school. For a number of programs, students may complete the two remaining first-year credits during these sessions. This program was designed primarily to suit the needs of students graduating from semestered high schools at the end of January.

Admission to First-Year University from Grade 12

The university is prepared to consider exceptional advanced level Grade 12 students who attain an average of 80%, have completed the OSSGD or OSSD or equivalent, and are recommended by their principal or school counsellor for entrance to the first year of an appropriate degree program. Students may also be allowed on this basis to take a Lakehead University course as a deferred credit while completing their Grade 13/OAC program.

Early Admission

Ontario Grade 13/OSSD students who apply early and who have maintained at least third-class standing will be considered for early admission. All students who apply early will be advised before the end of their school year with regard to their admission status. Early admission consideration consistent with other provincial diploma programs will also be extended to students who apply for admission to diploma programs in engineering technology (year 1) and forest technology.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year and four-year general
Available in: biology.

Three-year general
Available in: natural science.

Four-year honours
Available in: biology, forestry.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science", or "Honours Bachelor of Science in Forestry".

Education/Physical Education/ Recreation

• Bachelor of Arts – Bachelor of Education (combined)
Bachelor of Arts – Bachelor of Education (Native Education)
Bachelor of Education
Bachelor of Science – Bachelor of Education (combined)
Master of Education

The following professional four-year programs are offered for teachers: concurrent degree programs in arts or science and education for those who wish to teach at the primary-junior, junior-intermediate, or intermediate-senior levels. The equivalent of one year of professional studies and practice will provide the basis of certification in all programs. The university also offers a four-year Bachelor of Arts (general program) – Bachelor of Education degree for Native students that offers qualification at the primary-junior level. Programs are also available for junior-intermediate and intermediate-senior levels.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the primary-junior specialization: anthropology, English, French, history, philosophy, psychology, sociology.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the junior-intermediate specialization: English, French, geography, history, mathematics, philosophy, political studies, psychology.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the intermediate-senior specialization: English, French, geography, history, mathematics.

The following major is available to B.Sc.-B.Ed. candidates wishing to complete the primary-junior specialization: general science (natural science concentration).

The following majors are available to B.Sc.-B.Ed. candidates wishing to complete the junior-intermediate specialization: natural science and general program (chemistry concentration).

Lakehead University also offers a one-year Bachelor of Education degree program for holders of approved degrees, qualifying the candidate for teaching at the primary-junior, junior-intermediate, or intermediate-senior level.

Admission requirements
Admission to the first year of a four-year B.A.-B.Ed. or B.Sc.-B.Ed. program requires the satisfactory completion of an OSSHGD or OSSD with six OACs (or equivalent), with a minimum overall average of at least 60%. In addition to the prerequisites for specified majors, for B.A.-B.Ed., Grade 13/OAC English is required; for B.Sc.-B.Ed., the Grade 13/OSSD program should satisfy the requirements listed under *Bachelor of Science*.

• Bachelor of Outdoor Recreation

Four-year honours

Admission requirements
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English in their program.

• Bachelor of Physical Education

Four-year honours

Admission requirements
An OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English and in chemistry in their program. Candidates with an acceptable university entrance program that does not include chemistry will be considered on an individual basis. Those admitted without credit in Grade 13 chemistry will be required to take chemistry 1060 as one of their first-year options.

Engineering and Applied Sciences

• Bachelor of Engineering (Postdiploma)

Two years

Admission requirements
Diploma in technology from a college of applied arts and technology, Ryerson Polytechnical Institute, Lakehead University, or its equivalent. Specialization in: chemical, civil, electrical and mechanical.

Grade 13 OAC applicants who are eligible for entrance to the second year of engineering technology may complete an engineering technology diploma after two years and continue at Lakehead, receiving an engineering degree after an additional two years of study. Grade 12 applicants enter first year, receive a diploma after three years, and may obtain an engineering degree after two further years of study.

• Diploma in Engineering Technology

Three years for Grade 12 graduates; two years for Grade 13/OSSD graduates with six OACs holding admission requirements.
Specialization in: chemical, civil, electrical, and mechanical engineering technology.

Admission requirements
Admission to the first year of the engineering technology program requires an OSSGD/ OSSD (or equivalent) including Grades 11 and 12 advanced level mathematics and sciences and Grade 12 advanced level English with a minimum 60% average. After a common first year, candidates will select one of the following four programs: chemical engineering technology, civil enginering technology, electrical engineering technology, or mechanical engineering technology.

Admission to the second year of the engineering technology program requires an OSSHGD or OSSD including six OACs (or equivalent), with a minimum overall average of 60%, including chemistry, physics, calculus (OAC or Grade 13), algebra (Grade 13) or algebra and geometry (OAC), and functions and relations (applicants lacking this credit will be considered on an individual basis). An average of 60% in mathematics courses is required. Applicants will also require Grade 12 advanced level English and preference will be given to students with Grade 13/OAC English.

• Honours Bachelor of Science in Forestry

Four-year honours

Admission requirements
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent,

with a minimum overall average of 60%. Applicants must include Grade 13/OAC calculus, chemistry, and functions and relations or algebra and geometry in their program. The three remaining subjects should be choosen from English, another language, biology (recommended), physics, geography, history, finite mathematics (recommended), algebra (recommended if algebra and geometry not included). Applicants with two of the three mathematics courses will be considered on an individual basis.

• Diploma in Forest Technology

Two years

Admission requirements
An OSSGD/OSSD (or equivalent) including Grades 11 and 12 advanced level mathematics and sciences (Grade 12 advanced level chemistry required), with a minimum 60% average.

Fine and Applied Arts

• Bachelor of Arts

Four-year honours
Available in: fine arts (visual arts), music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts". Visual arts applicant must submit a portfolio for evaluation. Music students will be required to audition prior to admission. Music applicants must present Grade 8 or equivalent in their major instrument, as well as Grade 2 theory.

General Arts and Science

• Bachelor of Arts

Three-year general
Available in: general program.

• Bachelor of Science

Three-year general
Available in: general program.

Health Professions and Medical Sciences

• Bachelor of Science in Medical Laboratory Science

Four-year honours

Admission requirements
The medical laboratory science program is a postregistered technologist's program and requires registered technologist's certification (RT), certified or pending. The program prepares students for certification as advanced registered technologists (ART) in clinical chemistry, hematology, histology, immunohematology, or microbiology. Applicants may complete the program in three years.

• Bachelor of Science in Nursing

Four-year honours

Admission requirements
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC biology, chemistry, and English in their program. Mathematics is strongly recommended.

Candidates who are Registered Nurses must:
a) have evidence of registration to practise nursing in Canada;
b) have taken Grade 13/OAC chemistry (or equivalent); Grade 13/OAC mathematics and English are strongly recommended;
c) meet university entrance or mature student requirements.

Registered Nurses admitted under the above criteria may enter the streamlined program, which will allow them to complete their Honours Bachelor of Science in Nursing degree in two calendar years.

Mature students are required to have Grade 13/OAC chemistry (or equivalent), and Grade 13/OAC English and mathematics are strongly recommended.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: English, English (concentration in Canadian studies), history, French, mathematics, philosophy.

Four-year honours
Available in: English, history, French, mathematics, philosophy.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Library and Information Studies

Three years

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general/Four-year honours
Available in: computer science, mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: biology, chemistry, chemistry with energy and fuel science, computer science, general program, geography, mathematics, natural science, physics, physics with energy and fuel science, psychology.

Four-year general
Available in: biology, applied chemistry, computer science, geology, mathematics, physics.

Four-year honours
Available in: biology, chemistry, chemistry with energy and fuel science, computer science (options in numerical and theoretical, business, and hardware), geography, geology, mathematics, medical laboratory sciences, physics, physics with energy and fuel science, psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Administration

Three years
Majors are available in accounting, management systems, marketing, personnel/industrial relations.

Admission requirements
Satisfactory completion of an OSSHGD or OSSD, including six OACs, or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC English and one Grade 13/OAC mathematics in their program.

• Bachelor of Arts

Three-year general
Available in: anthropology, anthropology (Native studies), anthropology (boreal studies), economics, general program, geography, library and information studies, political studies, psychology, religious studies, sociology.

Four-year honours
Available in: anthropology, economics, geography, humanities, political studies, psychology, sociology, social work.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Commerce

Four-year honours

Admission requirements
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC English, calculus and algebra/algebra and geometry in their program. (Note: the school may consider functions and relations, mathematics of finance, or finite mathematics as a substitute for either calculus or algebra/algebra and geometry.)

• Bachelor of Science

Three-year general/four-year honours
Available in: geography, psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Residence Fees
Approximate 1988-89 costs, with meals
Single room $3 415
Double room $3 243

Tuition Fees 1988-89

Degree programs
(Canadian citizens and landed immigrants)
A student activity fee of $112 should be added to all of the following fees.
Arts (including concurrent education and make-up year) $1 398
Arts (geography/Honours Bachelor of Outdoor Recreation) $1 508
Applied science $1 519
Administration, commerce, social work $1 398
Degree engineering (years 4 and 5 only) $1 418
Degree forestry $1 518
Education degree, B.Ed. (one-year program) $1 398
Library and information studies $1,398
Nursing $1 398
Outdoor recreation $1 508
Physical and health education $1 438
Science (including concurrent education, medical laboratory science, and make-up years) $1 398
Science (natural science/Honours Bachelor of Outdoor Recreation) $1 508

Diploma programs
(Canadian citizens and landed immigrants)
Engineering technology $861
Forestry technology $971
Graduate business diploma (postdiploma) $1 398

Further Information
Inquiries about admission requirements should be directed to
Mrs. Gwen Wojda
Assistant Registrar, Admissions
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8157

Inquiries about admission requirements and secondary school liaison should be directed to

Ms. Linda Boivin, Mr. Oliver Pfeiff,
Secondary School Liaison Officers
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8749, 343-8650, 343-8674
Toll-free 1-800-465-3959 (Ont., Man., Sask.)

Information and application forms for student awards may be obtained from
Ms. J. Lawson
Director of Student Services
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8149

Sudbury

President: Dr. John S. Daniel

Enrolment 1989-90 (Sudbury Campus)

	Undergraduate	Graduate
Full-time	4 958	76
Part-time	4 216	111

Faculties, Schools, and Institutes
Faculty of Humanities
Faculty of Professional Schools
Faculty of Science and Engineering
Faculty of Social Sciences
School of Commerce and Administration
School of Education
School of Engineering
School of Graduate Studies
School of Nursing
School of Human Movement
School of Social Work
School of Sports Administration
School of Translators and Interpreters

General Admission Requirements
Minimum of three subjects – six credits, with a 60% average at the Ontario Grade 13 level or in OACs or the equivalent. At least four of the six credits must be from languages, mathematics, sciences, or social sciences. Applicants planning to concentrate in mathematics must have two credits in mathematics, of which one must be calculus. Applicants to the arts program in computer science must have two mathematics courses. Applicants to a science program in computer science must have at least two credits in mathematics, of which one must be calculus. The university also requires a complete academic report for the two final years of secondary school and a recommendation by the secondary school last attended regarding fitness for university studies. Petitions for variance from these requirements may be initiated with the Admissions Office.

Bachelor of Arts
The Grade 13 requirement for admission to a Bachelor of Arts program is either English or French. A Bachelor of Arts degree may be obtained at either the general or specialized level. General programs include 15 full courses (90 credits) over a three-year period, normally five courses (30 credits) each year. Concentrations (six full courses (36 credits) in one subject taken over three years) available are listed under specific subject areas. Specialized programs include 20 full courses (120 credits) over a four-year period, 10 (60 credits) of which will be upper-year level courses and one (6 credits) of which will be a first-year course in the subject of specialization. As a condition of graduation, all students newly admitted to arts programs must meet a requirement of competence in the official language (English or French) with which they most identify.

Bachelor of Science
Grade 13 requirements for admission into a Bachelor of Science program include: calculus, chemistry, and two of biology, physics, geology, and mathematics other than calculus. (Recommended subjects: chemistry, physics, two mathematics, and one other science credit.)* General and specialized degrees may be obtained in the same manner as a Bachelor of Arts degree. Concentrations available are listed under specific subject areas.

Early Admission
Early admission will be granted to students who have, in the opinion of the Admissions Committee for Laurentian, Algoma, or Nipissing, a satisfactory academic background. This acceptance is conditional upon the satisfactory completion of Grade 13.

Ontario Grade 12
The university and colleges will consider the applications of exceptional Grade 12 students with an "A" average throughout secondary school. A personal biography, as well as a positive recommendation from the guidance counsellor and/or principal, will be required. Before being recommended for admission, the candidate will be interviewed.

Concurrent Grade 13 Students
Subject to certain conditions, Grade 13 students may take university courses concurrently with their secondary school program, but credit will not be granted for passed courses until the students meet the normal admission requirements. Such students may enrol for only one session at a time as special students, and their records will be reviewed at the end of each session. These students must have obtained at least a "B" standing (depending on course load) and have the support of their guidance counsellor and/or school principal.

Winter admission
Students completing Grade 13 or OAC credits in January may now apply to Laurentian for studies beginning February 1. From February 1 to April a maximum of two courses may be completed, allowing the student to continue studies through spring and summer sessions where an additional three courses may be completed. This, in effect, allows a student to complete the equivalent of first-year studies, so that "second-year" studies may begin in the following September.

Mature Students
Persons 21 years of age or older as of October 1 of the current academic year, who have been away from formal education for a period of at least one year and who lack the formal entrance requirements, but whose

previous school performance and recent work record suggest a strong possibility of academic success, may qualify for admission as mature students to the B.A., B.S.W., and B.Com. programs (or others with special permission). Candidates who have completed Ontario Grade 12, who have been in the work force for at least two years, and who have demonstrated a suitability for university study may also qualify without satisfying the age requirement.

Candidates who have completed three Grade 13 credits with a 60% average may also qualify if they are 21 years of age as of October 1 of the current academic year and if they have been away from formal education for at least one year, or if they have not reached the age of 21 by October 1 but have been away from formal education for at least two years.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: biology.

Four-year specialized
Available in: biochemistry, biology, kinesiology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/ Recreation

• Bachelor of Education
The School of Education offers the following: a three-year program leading to a Bachelor of Arts with a concentration in education, after which a fourth year may be taken to qualify for a Bachelor of Education degree and an Ontario Teacher's Certificate (BEO); a one-year program leading to a Bachelor of Education degree and a BEO for candidates who have a baccalaureate other than a Bachelor of Arts with a concentration in education.

Admission requirements
Français, and English or *anglais*.

• Bachelor of Physical and Health Education, Honours Bachelor of Physical and Health Education

Four years
A curriculum designed to provide a sound background in physical and health education in society, in the context of educational, leisure, and competitive situations.

• B.P.H.E. (Health Promotion) Program, Honours B.P.H.E. (Health Promotion) Program

Four years
To provide leadership skills required for the promotion of health and physically active lifestyle with focus on counselling in physical fitness, stress management, nutritional awareness, environmental sensitivity, and health-oriented self-discipline.

• B.P.H.E. (Adventure Leadership) Program, Honours B.P.H.E. (Adventure Leadership) Program

Four years
The outdoor adventure leadership program is designed to assist the individual in developing, through experience and the acquisition of technical skill and theoretical knowledge, the personal qualities necessary to provide informed leadership in the recreational and educational uses of the outdoors. The experience and knowledge provided through these program situations are designed to foster personal growth of the individual.

Admission requirements
English or *français* and at least one level V or OAC course chosen from mathematics, chemistry, physics, biology, geology, or computer science.

• B.Sc. in Kinesiology Program, Honours B.Sc. in Kinesiology Program

Four years
The program is designed for those students who are interested in a scientifically oriented approach to the study of human movement.

Admission requirements:
See General Admission Requirements, "Bachelor of Science".

Engineering and Applied Sciences

• Bachelor of Engineering
The School of Engineering offers four-year Bachelor of Engineering programs in mining engineering and extractive metallurgical engineering, and the first two years of chemical, civil, and mechanical engineering.

Admission requirements
Three level V mathematics (calculus, algebra, functions and relations), chemistry, and physics, or two OAC mathematics (calculus, algebra and geometry), physics, and chemistry.

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: music, theatre arts.

Four-year specialized
Available in: music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts". Candidates for admission into the music concentration program should have successfully completed at least Grade 2 rudiments (R.C.M.T.) or equivalent, and at least Grade 8 (R.C.M.T.) or equivalent in the performance area they intend to pursue at Laurentian.

General Arts and Science

• Bachelor of Liberal Science
This program requires 15 courses, including general science, non-science, and elective credits. Considerable flexibility exists so that various emphases or themes can be incorporated in programs to accommodate different student needs.

Admission requirements
English or français.

Health Professions and Medical Sciences

• Bachelor of Science in Nursing
A four-year program preparing graduates to practise in all health care facilities, including hospitals, clinics, public health agencies, and family practice units, and to practise as nurses in industry. As well, graduates are able to participate in research and may go on to study for master's and doctoral degrees.

Admission requirements
English or *français*, chemistry, and biology (minimum average of 70% required).

• Bachelor of Science in Behavioural Neuroscience
A four-year specialized program for a broad knowledge in both behavioural and biochemical sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: Classical studies, English, ethics, *français*, French, French language and civilization, German, Italian, linguistics, philosophy, religious studies, Russian, Spanish.

Four-year specialized
Available in: English, *français*, philosophy, religious studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science in Language
A four-year program primarily concerned with training for posts in Canada; students will be equipped for positions involving the use of languages with the public service, industry and commerce, bilingual agencies and business, and the mass media.

Admission requirements
English (minimum average 66%) and French or *français* (minimum average 66%).

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: mathematics, computer science.

Four-year specialized
Available in: computer science, earth science.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: applied physics, chemistry, computer science, geology, mathematics.

Four-year specialized
Available in: applied physics, chemistry, computer science, geology, kinesiology, mathematics, mining geology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, Canadian studies (interdisciplinary program), economics, education, geography, history, law and justice, Native studies, political science, psychology, sociology.

Four-year specialized
Available in: economics, geography, history, law and justice, political science, psychology, sociology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Commerce

Four-year honours
Twenty full courses. A new program, a Bachelor of Commerce in co-operative administration in French, has been introduced. An honours Bachelor of Commerce in sports administration is an interdisciplinary program offered by the School of Sports Administration in co-operation with the School of Commerce and Administration and the School of Human Movement.

*Admission requirements**
English or *français* and two Grade 13 mathematics courses.

• Bachelor of Social Work

Four-year honours
The study of social work begins in the first year.

Admission requirements
Grade 13 English or French.

• Bachelor of Social Work (Native Human Services)

Four years
A program to prepare professionals for social services that are culturally appropriate for Native communities.

Admission requirements
Grade 13 English or French.

***Petitions for variance may be initiated with the Admissions Office.**

• Université canadienne en France
The *Université canadienne en France* program, introduced in 1987, is operated by Laurentian University in co-operation with Blyth and Company.

The program is designed to enable English-speaking and French-speaking students from all provinces to spend a year in southern France while continuing to earn Canadian University credit. An integral part of the Ontario university system, the *Université canadienne en France* program offers a unique opportunity for students to complete a year of university credit while developing bilingual skills, broadening themselves through travel, and acquiring a heightened appreciation of the diversity of Canada itself.

Care has been taken to ensure that Canada's languages and regions are represented in the programs with a student body of over 200 anglophone and francophone undergraduates from all provinces. The eight-month program of courses in humanities, social sciences, and languages is specially selected from the first three years of an Ontario university curriculum.

The intensive curriculum in language and civilization, which highlights a special theme each year (the twentieth-century world, the Renaissance, the Mediterranean, the Enlightenment), is designed to give Canada's future leaders a better understanding of our world. Laurentian credits earned in the *Université canadienne en France* program are transferable to the students' home universities upon approval by these institutions. The teaching staff is made up of faculty from Laurentian and other Canadian universities.

Various types of student accommodation are available, including residences on the campus, which is superbly located on the Côte d'Azur between Nice and Monaco.

Admission Requirements
A minimum of one full year of study (minimum of 24 credits) at a Canadian university or successful completion of the DEC in Quebec. Students must be in good academic standing at their home university and obtain a letter of permission or equivalent once admitted to ensure that the university will accept credit transfers at the completion of their studies at UCF.

Fees 1989-1990
Academic (fees applicable to Canadian citizens and exempt international students) tuition fees and ancillary fees (includes tuition, athletic facilities, life/accident insurance, student association fees): $1 680.50

Travel and accommodation (includes return air fare, residence accommodation, transfers, excursions: $6 314.50

Total fees: $7 995

Spring session
In addition to the full-year program, the *Université canadienne en France* offers a spring session that runs from early May to the middle of June. The courses include intensive French-language and Italian-language programs as well as commerce, humanities, and social science courses. Students may register for a maximum of 12 credits for this session. Fees start at $2 410

Residence 1989-90
Single room $1 908 – $2 000
Double room $1 590 – $1 720
Apartments for married students: $330 per month.
Meals are available on a cash basis, or a meal card may be purchased.

Tuition Fees 1989-90
(including incidental fees)
Canadian citizens and exempt international students
Full-time students:
All programs except engineering $1 680.50
Engineering $1 808.50

Further Information
Information and application forms for student awards may be obtained from
Denis Lauzon
Director of Student Awards
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151, ext. 3050
Toll-free 1-800-461-4030

Inquiries about admission requirements and requests for more general information should be directed to
Assistant Registrar, Admissions
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3915
Toll-free 1-800-461-4030

Requests for general information should be directed to
Chris Culliford, Manager Liaison Services, or Lorraine Bédard and Lisa Rovinelli, Liaison Officers
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3100
Toll-free 1-800-461-4030

[redacted]

President: Dr. J. Douglas Lawson

Enrolment: 1988-89

Full-time	300
Part-time	542

Admission requirements
Same as for Laurentian University.

Algoma is a liberal arts and scienced college affiliated with Laurentian University. It provides university-level instruction for degrees, professional development, and

general interest. Students may apply efforts to any of fourteen areas of concentration and will be awarded degrees by Laurentian University upon successful completion of the program.

Degree Programs Offered

• Bachelor of Arts
Three-year degree programs in accounting, computer science, economics, English, French, geography, history, music, Italian, mathematics, philosophy, political science, psychology, and sociology.

• Bachelor of Arts (Honours or Specialized)
Four-year degree programs in English and psychology. Students in three-year programs at Algoma may transfer to Laurentian University for the four-year programs, provided they have met all the program requirements.

• Bachelor of Science
A three-year B.Sc. degree program in computer science and a three-year Bachelor of Liberal Science degree program. Algoma also offers the first year of a Bachelor of Science degree program (three- or four-year) in biology, chemistry, and physics.

• Honours Bachelor of Commerce
The first two years of the B.Comm. degree program, after which students who meet the requirements may apply for admission to the final years at Laurentian University or elsewhere.

• Honours Bachelor of Social Work
The first two years of the B.S.W. degree program, after which students who meet the requirements may apply for admission to the final years at Laurentian University or elsewhere.

• Part-Time Studies
Students pursuing degrees through part-time studies have the same opportunities for the same courses and programs and are subject to the same course and program requirements as full-time students. There are minor differences in admissions policy and registration procedures. Contact the Office of the Registrar for further information.

• Co-operative Education
Available in accounting, computer science, and psychology.

Scholarships and Financial Assistance
The university offers entrance and continuing scholarships ranging in value from $200 to $2 000 for full-time students. The Ontario Student Assistance Program is administered through the Office of the Registrar.

Residence
Algoma offers a small residence featuring apartment-style units, newly renovated and completely furnished for $2 000 per academic year.

Tuition Fees 1988-89
(including incidental fees)
All programs $1 490

Further Information
Information regarding admission requirements and financial assistance may be obtained from

Office of the Registrar
Algoma University College
1520 Queen St. East
Sault Ste. Marie, Ontario P6A 2G4
Telephone (705) 949-2301 ext. 241

Requests for general information may be obtained from
Department of Student Services and Communications
Angela Fera, Liaison Officer
Judy Reid, Native Student/Special Needs Counsellor
Algoma University College
1520 Queen St. East
Sault Ste. Marie, Ontario P6A 2G4
Telephone (705) 949-2301
Collect calls to Angela Fera will be accepted.

Nipissing University College
North Bay

President: Dr. Anthony Blackbourn

Enrolment 1988-89

Full-time	600
Part-time	2 750

Faculties
Faculty of Arts
Faculty of Education

Admission Requirements
Same as for Laurentian University.

Degree Programs Offered

• Bachelor of Arts
Nipissing offers a four-year Bachelor of Arts specialized program in English, environmental geography, geography, and psychology; a combined specialization in sociology; three years of the four-year Bachelor of Arts specialized program in history; a combined B.A./Orientation to Teaching program; and a three-year Bachelor of Arts general program for full-time and part-time students. The general program consists of 15 courses, including six in the area of concentration. No more than seven first-year courses may be contained in the full program. Concentrations are offered in administrative studies, English, environmental geography, geography, history, psychology, social welfare, and sociology. Other areas in which electives are offered are: anthropology, biology, chemistry, classics, commerce, computer science, economics, environmental science, fine arts/music, fine arts/visual arts, *français*, French, geology, mathematics, philosophy, physics, and political science.

Admission requirements
English or *français*, except for administrative studies, which requires English or *français*, two credits in mathematics, and basic facility in keyboarding (typing). Students who do not meet the keyboarding or mathematics requirements will be considered on an individual basis.

• Bachelor of Education
The Faculty of Education at Nipissing offers a one-year program leading to a Bachelor of Education degree. This program meets the Ministry of Education requirements for teacher certification.

Admission requirements
An approved university degree.

• Transfer Programs Offered
Nipissing offers the first year of the Bachelor of Science program and the first two years of the Bachelor of Social Work and the Bachelor of Commerce programs. Students in these transfer programs may complete one or two years at Nipissing and then transfer to Laurentian or another university to complete the degree.

Admission requirements
Bachelor of Science – calculus, chemistry, and two of biology, geology, physics, or mathematics.
Bachelor of Social Work – English or *français*.
Bachelor of Commerce – English or *français*, and two credits in mathematics.

Residence
The student residence accommodates 300 in 50 townhouse-style apartments. Each furnished townhouse accommodates six people. Students have their own bedroom with a built-in study area. The fully equipped kitchen, dining room, and living room are shared.

Residence fees 1989-90: arts, commerce, education, science, social work – $1 836.

Tuition Fees 1989-90
(including incidental fees)
Full-time arts, commerce, education, science, and social work $1 565

Further Information
Information regarding entrance requirements, academic status and scholarships, and accommodation may be obtained from
The Registrar's Office
Nipissing University College
100 College Drive
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450
Toll-free 1-800-461-1673

Inquiries about financial assistance should be directed to
The Financial Aid Officer
Nipissing University College
100 College Drive
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450
Toll-free 1-800-461-1673

McMaster University

Hamilton

President: Dr. Alvin A. Lee

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	12 014	1 411
Part-time	4 016	743

Academic Units
Faculty of Business
Faculty of Engineering
Faculty of Health Sciences
School of Medicine
School of Nursing
Faculty of Humanities
Faculty of Science
Faculty of Social Sciences
School of Physical Education and Athletics
School of Social Work
Arts and Science Program
McMaster Divinity College (affiliated)
Centre for Continuing Education
School of Graduate Studies

General Admission Requirements
Grade 13 requirements
At the time of writing, Grade 13 courses were being phased out and replaced by OACs. During the transition period the two sets of courses may be equivalent. The requirements below are given in terms of OACs, for which Grade 13 courses may generally be substituted.

All potential applicants are strongly advised to take a senior high school course in English designed to improve their basic reading and writing abilities. Applicants to arts and science I (special program), business I, engineering I, humanities I, music I, nursing I, physical education I, and social sciences I must have one OAC English credit for admission. Applicants to natural sciences I are strongly urged to include a senior high school English course in their program of study.

Grade 13 Requirements for Specific Programs of Study
McMaster is aware of the variety of experimental programs offered in Ontario secondary schools and welcomes applicants from these programs. Although it may not be possible for all applicants to meet the exact subject requirements outlined below, students are urged to write the Associate Registrar (Liaison and Admissions), who will ensure that their case is given careful consideration.

Humanities I, natural sciences I, and social sciences I are broad fields of study in first year that lead to a variety of honours, majors, and general programs in the second year. Arts and science I, business I, engineering I, music I, nursing I, and physical education I are the first-year programs leading to the Bachelor of Arts and Science, Bachelor of Commerce/Bachelor of Commerce (Honours)/Bachelor of Commerce and Arts (Economics), Bachelor of Engineering, Bachelor of Engineering and Management, Bachelor of Music, Bachelor of Science in Nursing, and Bachelor of Physical Education, respectively.

Note: Arts and science I, business I, engineering I, music I, natural science I, physical education I, nursing I, and social sciences I have limited enrolment. Admission to these programs is by selection; therefore, meeting the minimum requirements will not guarantee admission.

Area Requirements
Arts and science I (Special Program)
Enrolment in the arts and science program is limited, and admission is by selection. Candidates may be interviewed. Students applying from Ontario secondary schools must have:
1. One OAC English.
2. OAC calculus.
3. Completion of additional OACs to total six credits with a weighted average of at least 75%. At least three of the additional OACs must be selected from among English, *français*, other languages, algebra and geometry, biology, chemistry, finite mathematics, geography, history, music, and physics. (Grade 13 courses in algebra and in functions and relations will be accepted in this group.)

Candidates without these qualifications who nevertheless provide evidence of unusual promise will also be considered. Students from colleges, other universities, and other provinces are invited to apply. Each case will be considered on its individual merits.

Business I
Enrolment in business I is limited, and admission is by selection. The specific grade or percentage required for admission varies from year to year. The following are the minimum requirements for consideration:
1. One of OAC calculus, OAC algebra and geometry, or OAC finite mathematics. Calculus or finite mathematics is preferred.
2. One OAC English.
3. At least three additional OACs selected from among accounting and economics, algebra and geometry, biology, chemistry, calculus, English, *français*, geography, history, music, physics, and other languages;
4. Additional OACs to total six credits with a minimum overall average of 70%.

Grade 13 courses in algebra and in functions and relations may be used in groups 1 and 3 above, but only one of OAC algebra and geometry and Grade 13 algebra may be used.

Engineering I
Enrolment in engineering I is limited, and admission is by selection. The minimum requirements are six OACs with an average of at least 75%, and these must include English, calculus, algebra and geometry, chemistry, and physics, with an average of at least 75% in these five subjects. For students presenting Grade 13 courses, the minimum requirements are an overall weighted average of at least 75% in the six credits offered, including a weighted average of at least 75% in the following five Grade 13 credits: calculus, algebra, functions and relations, physics, and chemistry.

Applicants presenting a mixture of Grade 13 subjects and OACs may substitute Grade 13 courses in calculus, chemistry, and physics for the OACs. An applicant presenting OAC algebra and geometry must also present English; a student presenting Grade 13 would have to present algebra and functions and relations. Other mixtures of Grade 13/OAC credits will be considered on an individual basis.

As a general policy, applicants from Ontario colleges of applied arts and technology who have achieved a first-class honours standing in the last two years of a three-year technology program will be considered for admission to the second level of a relevant engineering program.

Humanities I
Admission to Humanities I is by selection, and a minimum overall average of 70% in six OACs is required. The required OACs include:

1. One of OAC English I, *anglais* I or II, or *français* with a grade of at least 65%.
2. Five additional OACs. The faculty of humanities recommends that students select at least one OAC from the following humanities subjects: art, drama, English, French, *français*, other languages, history, and music, in addition to requirement 1 above. Candidates who provide evidence of equivalent promise will be considered. No more than two OACs in any one subject will be accepted.

Art 1FO: Students intending to take art 1F06 must present a portfolio by the end of April and be interviewed by the Department of Art and Art history. The portfolio should contain a variety of original works in different media, including works derived from both first-hand observation and the imagination. During the interview, students may be asked to do some drawing as an additional means of demonstrating their skills and interests. Late applications may be considered if places are available in the class.

Natural sciences I
Admission to natural sciences I is by selection, and the specific percentage required for admission varies from year to year. Students with a weighted OAC average of at least 75% will be given priority. Following are the minimum requirements:
1. OAC calculus.
2. One of OAC physics, OAC algebra and geometry.

3. One of OAC biology, OAC chemistry, OAC algebra and geometry.
4. A weighted average acceptable to the faculty in calculus and the two additional credits specified above (in the past five years an average of at least 70% has been required).
5. Additional OACs to a total of six credits.

It is strongly recommended that applicants present at least one of OAC biology, OAC chemistry, or OAC physics when meeting the above requirements. OAC algebra and geometry is also desirable. Although OAC English is not required for admission, it is strongly recommended that students take it. Grade 13 courses in algebra and in functions and relations may be used in group 2, 3, 4, or 5 above.

Nursing I
Admission is by selection. Possession of the minimum requirements does not guarantee admission. Only those applicants who offer high academic standing are selected.

Required:
1. Year 4 mathematics (advanced level).
2. OAC chemistry and OAC English.
3. One of OAC mathematics, OAC biology, or OAC physics.
4. Additional OACs (within the two years before application) to total six credits. At least two of the additional OACs must be selected from *français*, other languages, calculus, finite mathematics, algebra and geometry, biology, physics, geography, history, and music.

Grade 13 courses in algebra and in functions and relations may be used in groups 3 and 4 above.

Health requirements for admission: Before registration, students must file information pertaining to their state of health and immunization with the university. Detailed instructions will be provided upon acceptance into the program.

OAC/Grade 13 applications must be postmarked no later than May 1 in the year in which study is to begin. Non-OAC/Grade 13 applications must be postmarked no later than February 15 in the year in which study is to begin.

Mature students and diploma Registered Nurses are invited to write to the Assistant Registrar (Health Sciences).

Social sciences I
Admission is by selection, and a minimun average of at least 70% (to be computed on the basis of the six highest marks achieved in OACs) will probably be required. The minimum requirements are:
1. One OAC English.
2. One of OAC algebra and geometry, OAC calculus, OAC finite mathematics.
3. Additional OACs to total six credits.

Candidates without these qualifications who nevertheless provide evidence of equivalent promise will be considered. Grade 13 courses in algebra and in functions and relations may be used in place of algebra and geometry in group 2 above.

Early Admission
Early admission is based on interim marks and may be granted annually in June to an applicant who expects to acquire final standing later in the year. If granted early admission, the applicant must meet the minimum admission average and successfully complete all required subjects for the chosen program.

Winter Admission
Students from semestered secondary schools who have successfully completed the required subjects and achieved the minimum admission average (based on final marks) may be admitted into the first year of their programs in February. A selection of courses will be available at that time, but not necessarily all year 1 courses will be offered.

Admission with other qualifications
Applicants who do not meet the above qualifications, or whose academic backgrounds vary from those described above, should contact the Associate Registrar (Liaison and Admissions).

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: biology.

Four-year honours
Available in: biochemistry (general option), biochemistry (biotechnology and genetic engineering option), biochemistry and chemistry (combined), biology, biology and philosophy, biology and psychology-life sciences (combined), molecular biology and biotechnology.

Four-year major
Available in: biochemistry, biology.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Education/Physical Education/Recreation

• Bachelor of Physical Education

Four years

Admission requirements (physical education I)
See *General Admission Requirements* and *Area Requirements*, "Social sciences I".

• Education

Continuing education for teachers is available. Programs lead to a master's (teaching) (M.A. or M.Sc.) degree.

Engineering and Applied Sciences

• Bachelor of Engineering

Four years
Available in: ceramic, chemical, civil, computer, electrical, engineering physics, manufacturing, materials, mechanical, and metallurgical engineering.

Five years
Available in: civil engineering and computer systems.

• Bachelor of Engineering and Management

Five years
Available in combination with: ceramic,† chemical, civil, computer, electrical, engineering physics, materials,† mechanical engineering, metallurgical.†

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Engineering I".

• Bachelor of Science

Four-year honours
Available in: applied chemistry, applied physics (general option), applied physics (health and radiation option).

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Fine and Applied Arts

• Bachelor of Arts

Three-year general/four-year honours
Available in: art, art history, dramatic arts, music.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Humanities I".

• Bachelor of Music

Four-year honours
Available in: music education, music history and theory. A student may also combine two humanities or one humanities and one social science to make a combined program.

Three-year general

Admission requirements (music I)
See *General Admission Requirements* and *Area Requirements*, "Humanities I". The audition requirement consists of the following:
1) demonstration of technique (approximately Grade 9 level of Royal Conservatory of Music, Toronto);
2) performance (approximately 20-minute duration) of two or three varied pieces of the candidate's choice, including at least one from the 20th century (required standard at least Grade 9);
3) ear tests appropriate to the Grade 9 performance level;
4) written examination on rudiments of theory (Grade 2 level);
5) interview.

General Arts and Science

• Bachelor of Arts and Science (special program)

The arts and science program provides for a rigorous study of methods of inquiry, with

† Pending approval.

substantial specialization in a discipline or problem area through the use of electives. Combined honours programs are available in many disciplines from humanities, social sciences, and sciences.

Five-year honours
Available in combination with: biology, physics.

Four-year honours
Available in combination with: anthropology, biochemistry, computer science, drama, economics, English, French, geography, German, gerontology, history, mathematics, philosopy, political science, psychology, religious studies, social work, sociology.

Three-year general

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Arts and Science I".

• Bachelor of Science – general

Three-year general

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural science I".

• Bachelor of Arts – humanities interdisciplinary program

Three-year general based on thematic studies in ancient studies, Canadian studies, comparative literature, contemporary studies, or creative arts.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Humanities I".

Health Professions and Medical Sciences

• Bachelor of Health Sciences
McMaster University, in co-operation with Lakehead University, is planning new programs in occupational therapy and physiotherapy (pending approval). These two-year programs will be available to students who hold a baccalaureate degree with an overall standing of at least a "B" and are expected to begin in the fall of 1990. The programs described below will be phased out as the new ones are introduced.

Fourth-year level postprofessional degree program, available on both a full- and part-time basis. Available in: occupational therapy, physiotherapy.

Admission requirements
For admission to the degree program (fourth year), students must have successfully completed the three-year program in occupational therapy or physiotherapy at Mohawk College. To be eligible for consideration, graduates from these Mohawk programs should present:
1) a Mohawk diploma of occupational therapy or physiotherapy with the certificate from McMaster University;
2) official transcripts from Mohawk College;
3) a letter outlining the candidate's learning objectives (guidelines are available); and
4) all other transcripts from other post-secondary institutions attended.
A personal interview may be required.

Candidates with diplomas in occupational therapy and physiotherapy from other institutions are admitted to the degree program after successful completion of a preprogram phase (last intake: September 1989). Candidates for admission should present:
1) a diploma of occupational therapy and/or physiotherapy;
2) official transcripts from a diploma-granting institution;
3) eligibility to practise in the jurisdiction that provided the professional training (professional training will be judged according to equivalency to the diploma component of the Mohawk/McMaster diploma program);
4) proof of Canadian citizenship or landed immigrant status;
5) a letter outlining the candidate's learning objectives;
6) an interview.
Enrolment in the bachelor of health science program is limited; therefore, admission is by selection of applicants. Possession of the minimum requirements does not guarantee admission. Students who do not meet these requirements exactly, but who wish to be considered, should write to the Associate Registrar (Liaison and Admissions).

• Bachelor of Science in Nursing

Four years; two years (for diploma Registered Nurses)

Admission requirements (nursing I)
See *General Admission Requirements* and *Area Requirements*, "Nursing I". Candidates holding R.N. diplomas or having other qualifications should contact the Assistant Registrar (Health Sciences).

• Doctor of Medicine
Three-year program leading to M.D. Open to those with at least three years of university and a minimum "B" average. Applicants with backgrounds that vary from these criteria should contact the Assistant Registrar (Health Sciences).

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: classical studies, English, French, history, philosophy.

Four-year honours
Available in: classical studies, classics, comparative literature, English, French, German, German and political science, Hispanic studies, history, history and geography, Italian, modern languages and linguistics, philosophy, philosophy and biology, philosophy and mathematics, Russian, Russian and political science. A student may also combine two humanities subjects or one humanities and one social science subject to make a combined program. Honours programs in German, Hispanic studies, Italian, or Russian must be combined with another subject.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Humanities I".

Mathematical and Physical Sciences

• Bachelor of Science

Three-year general
Available in: chemistry, computer science, geology, mathematics, physics, statistics.

Four-year honours
Available in: biochemistry (general option), biochemistry (biotechnology and genetic engineering), biochemistry and chemistry, chemistry, chemistry and geology, chemistry and physics, computer science, computer science and mathematics, computer science and psychology, computer science and statistics, geography, geography and environmental science, geography and geology, geology, geology and physics, mathematics, mathematics and physics, materials science, physics (general option), physics (theory option).

Four-year major
Available in: biochemistry, biochemistry and chemistry, chemistry, computer science, computer science and mathematics, computer science and statistics, geology, geology and physics, materials science, mathematics, physics (general physics, and health and radiation physics options).

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, economics, geography, gerontology, labour studies, political science, psychology, religious studies, sociology. A general program in gerontology must be combined with another subject or completed as a second degree.

Four-year honours
Available in: anthropology, economics, economics and computer science, economics and geography, economics and mathematics, economics and political science, geography, geography and environmental studies, geography and geology, gerontology, labour studies, political science, psychology, religious studies, sociology. In addition to taking the combined programs listed above, a student may also combine two social science subjects or a social science and humanities subject to make other combined honours programs.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Social sciences I".

• Bachelor of Commerce
Four-year general, four-year honours, four-year honours and arts – economics, offering a wide range of course work in the following areas: accounting, business policy, finance, human resources and labour relations, management science and information systems, marketing and international business.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Business I".

• Bachelor of Science

Three-year general
Available in: geography, psychology.

Four-year major
Available in: psychology.

Four-year honours
Available in: geography, geography and geology, psychology, psychology and biology.

Admission requirements
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

• Bachelor of Social Work/Bachelor of Arts

Four years

Admission requirements
Admission to the School of Social Work is contingent upon:
1) completion of any year I program including introductory courses in psychology and sociology. Courses selected in year I should be appropriate for the subject of concentration selected for the B.A. program in year II;
2) a university average of at least 6.0 or its equivalent in the year I program; and
3) evidence of personal suitability as evaluated by one, or a combination, of written statements, interview, and tests.
Enrolment in the B.A./B.S.W. program is limited.

Residence Fees 1988-89

Room plus:	10 meals a week:	$2 988
	14 meals a week:	$3 355
	19 meals a week:	$3 495
Room only (available only in apartment-style residences)		$1 505
Meal plan only:	10 meals a week:	$1 483
	14 meals a week:	$1 850
	19 meals a week:	$1 990

Accommodation is available for 2 391 women and men. The rooms are provided with staple articles of furniture: tables, chairs, beds, mattresses, pillows, and all necessary bedding. Residence students are required to supply their own wash cloths and towels.

The services of the infirmary, staffed by qualified doctors and nurses, are available to all resident students.

Tuition Fees 1988-89
Fees below are the tuition and supplementary fees for full-time level I undergraduate students only. (Part-time fees are charged on a per-course unit basis. Contact the university directly for charges.) These are the fees that apply to Canadian citizens and landed immigrants only.

Arts and science I (special program)	$1 580.30
Business I	$1 585.30
Engineering I	$1 754.30
Nursing I	$1 622.30
Physical education I	$1 575.30
Medicine I	$2 935.00
All other programs	$1 570.30

Tuition fees for international students 1988-89

Arts and science I (special program)	$4 870.30
Business I	$4 875.30
Engineering I	$7 893.30
Nursing I	$7 882.30
Physical education I	$4 865.30
Medicine I	$11 749.00
All other programs	$ 4 860.30

Further Information
Information about admission requirements may be obtained from
Associate Registrar (Liaison and Admissions)
Room 120, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4796

General information about the university may be obtained from
Division of Student Liaison
Room 102, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone 525-9140 ext. 4787

Information about undergraduate academic awards and scholarships may be obtained from
Academic Awards Officer
c/o Student Financial Aid Office
Hamilton Hall, Room 401
McMaster University
Hamilton, Ontario L8S 4K1
Telephone (416) 525-9140 ext. 4319

Information and application forms for financial assistance may be obtained from
Director of Student Financial Aid and Scholarships
Hamilton Hall, Room 401
McMaster University
Hamilton, Ontario L8S 4K1
Telephone (416) 525-9140 ext. 4319

Information about the medical program and nursing programs may be obtained from
Asisstant Registrar (Health Sciences)
Room 1B7, Health Sciences Centre
McMaster University
Hamilton, Ontario L8S 3X5
Telephone (416) 525-9140 ext. 2114

University of Ottawa

Ottawa

Rector: Dr. Antoine D'Iorio

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	14 420	1 620
Part-time	9 272	1 916

Faculties, Schools, and Institutes
Faculty of Administration
Faculty of Arts
Faculty of Education
Faculty of Engineering
Faculty of Health Sciences – (School of Human Kinetics, School of Medicine, School of Nursing, Physiotherapy Program, Occupational Therapy Program)
Faculty of Law
Faculty of Science
Faculty of Social Sciences
School of Graduate Studies
Institute for International Development and Co-operation

Federated University and Affiliated College
Saint Paul's University, Ottawa

General Admission Requirements
An OSSD including at least six OACs. Students currently completing Grade 13 courses will be considered for admission upon completing the OSSD or the OSSHGD.

Bachelor of Arts
OSSD requirements for admission to a Bachelor of Arts program include: six OACs, including English or *français*, with an overall average of at least 65%. Due to the large number of applicants, the Faculty of Arts admits few students whose average is less than 70%.

Additional requirements: B.Mus.: audition and written examination; B.F.A. (studio and photography): interview and portfolio; B.A. (mathematics): two credits from calculus, algebra or algebra and geometry, or functions and relations (calculus is strongly recommended).

Bachelor of Science and Bachelor of Applied Science
OSSD requirements for admission to a Bachelor of Science program include six OACs, including mathematics – two credits including calculus and one other credit in either algebra, algebra and geometry, or functions and relations (three credits are recommended[1]); chemistry – one credit[2]; physics – one credit[2]; other courses to make up six credits.

Notes: 1. Applicants with two mathematics credits not including calculus may be admitted with a requirement to pass a make-up course in calculus during first year.

Applicants to engineering and computer science programs will not normally be admitted without calculus.

2. Applicants lacking one credit in chemistry or physics may be admitted with a requirement to pass a make-up course in the missing subject during the first year. Applicants to computer science and engineering programs must complete both sciences.

A minimum average of 65% in science and all mathematics subjects, as well as an overall average of 70%, are required.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: life sciences.

Three-year major/four-year honours
Available in: biochemistry, biochemistry (nutrition and dietetics), biology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/Leisure Studies

• Bachelor of Education
One-year program, leading to elementary or secondary school teaching.

Admission requirements
A recognized bachelor's degree.

• Bachelor of Physical Education

Four-year honours

Admission requirements
Minimum overall average of 70% in six OACs, with one credit in English or *français*, and five other credits. One mathematics and one chemistry course recommended. Limited-enrolment program.

• Bachelor of Science in Kinanthropology

Four-year honours

Admission requirements
Minimum overall average of 70% in six OACs, with one credit in English or *français*, chemistry, physics, and two mathematics (algebra, calculus, finite mathematics, functions and relations). If finite mathematics is presented, the other mathematics course must be calculus.

Note: Applicants presenting only one credit in chemistry or physics and only one in mathematics may be admitted. These applicants must pass a make-up course in the missing subject(s) during the first year.

• Bachelor of Social Sciences with Honours in Recreology

Four years

Admission requirements
Minimum overall average of 65% in six OACs.

Engineering and Applied Sciences

• Bachelor of Applied Science

Four years
Available in: electrical, chemical, civil, and mechanical engineering.

Four and one-half years (co-op program)
Available in: electrical, chemical, computer engineering, civil, and mechanical engineering.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Applied Science (Engineering Management Program)

Five years

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Science

Three-year general
Available in: earth sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Fine and Applied Arts

• Bachelor of Arts

Three-year concentration
Available in: music, theatre, visual arts.

Four-year honours
Available in: music, theatre, theory and history of art.

• Bachelor of Fine Arts

Four-year honours
Available in: photography, studio.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Music

Four-year honours
Available in: composition, education, musicology, performance, theory.

Admission requirements
An overall average of at least 68% in six OACs, with one credit in English and five other credits. Candidates must also pass an audition and a written exam.

Health Professions and Medical Sciences

• Bachelor of Science in Nursing

Four-year honours

Admission requirements
OACs in English, biology, chemistry, and three other credits. Grade 12 mathematics is also required. An average of 65% is required in the science courses, with a minimum overall average of 75%. The candidate must provide proof of completion of a cardiopulmonary resuscitation (CPR) course. Limited-enrolment program. Physiotherapy and occupational therapy programs: chemistry, biology, physics, one mathematics, and French *or* English; enrolment is limited to 25 in each program; the student must be fluently bilingual to be admitted to either program; some of the courses will be offered in only one of the two official languages; minimum average of 75% required.

• Doctor of Medicine
Candidates in the following categories are eligible to apply for admission to the first year of the four-year M.D. program:
a) students who have successfully completed the first two years of a B.Sc. program, provided it includes at least one year of physics, one year of general and inorganic chemistry, one year of general biology or zoology, and one year of organic chemistry;
b) students of other universities who have completed studies equivalent to those listed in (a), provided such studies comply with the regulations of the College of Physicians and Surgeons of Ontario.

Humanities and Related Courses

• Bachelor of Arts

Three-year concentration
Available in: Canadian studies, classical art and archeology, classical studies, communication, criminology, economics, English, geography, German, history, Italian, *langue française, lettres françaises*, linguistics, mathematics, mediaeval studies, music, philosophy, political science, psychology, public policy and public management, religious studies, Slavic studies, sociology, Spanish, theatre, translation (co-op), visual arts, women's studies.

Four-year honours
Available in: classical studies, communication, English, geography, history, *lettres françaises*, linguistics, mathematics,music, philosophy, religious studies, Slavic studies, Spanish, theatre, theory and history of art, translation.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general/four-year honours
Available in: mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: physical sciences.

Three-year major/four-year honours
Available in: chemistry, computer science, geology, geology-physics, mathematics, mathematics-science, physics, physics and mathematics (combined).

Co-operative programs
Available in: mathematics-sciences (five years), computer sciences (four years).

Admission requirements
See *General Admission Requirements*, "Bachelor of Science". The computer science program has limited enrolment.

Social Sciences and Related Courses

• Bachelor of Administration

Three years

• Bachelor of Commerce

Four-year honours
Specializations available in: accounting, management, and information systems. Majors available in: finance, human resources management, management science, marketing, public policy and public management.

Co-operative programs (four years)
Available in: accounting, management information systems.

Admission requirements
Six OACs including one credit in English or *français*, two credits in mathematics calculus or algebra and geometry (calculus strongly recommended), and three other credits. Minimum overall average of 70%. Limited-enrolment program.

Note: The B.Adm. and B.Com. programs are given by the Faculty of Administration.

• Bachelor of Arts

Three-year concentration
Available in: Canadian studies, classical art and archaeology, classical studies, geography, history, medieval studies, Slavic studies, women's studies.

Four-year honours
Available in: classical studies, geography, history, Slavic studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Arts in Psychology

Three-year concentration/four-year honours
Given through the Faculty of Social Sciences.

Admission requirements
One credit in English, and five other credits. Minimum overall average of 70%. Limited-enrolment program.

• Bachelor of Laws
(Common Law section of the Faculty of Law)
Three-year program following a minimum of two years of a recognized bachelor's program beyond the OSSD.

• Licence en Droit
(Section de Droit civil de la Faculté de Droit)
Programme de trois ans après le baccalauréat ès arts ou l'obtention d'un diplôme jugé équivalent.

• Bachelor of Laws – Licence en Droit (combined)
A common content of Canadian law subjects makes it possible to combine both programs, enabling students to obtain both degrees in four years.

• Bachelor of Social Sciences

Three years (one or two concentrations)
Available in: Canadian studies, economics, political science, psychology, public policy and public management, sociology and criminology, women's studies.

Four-year honours
Available in: criminology, economics, political science, psychology, recreology, sociology.

Admission requirements
Minimum overall average of 65% in six OACs. The student who wishes to study economics must present one credit in calculus. The student who wishes to study psychology must present a credit in English. Criminology and psychology have limited enrolment.

Note: The Faculty of Social Sciences offers a joint program with honours in criminology, economics, political science, recreology, sociology, and psychology and a concentration in one of the following disciplines: Canadian and Quebec politics, Canadian studies, classical art and archaeology, classical studies, communication, criminology, economics, English, geography, German, history, international and comparative politics, Italian, *langue française, lettres françaises*, linguistics, mathematics, medieval studies, music, philosophy, political science, political thought, psychology, public policy and public management, religious studies, Slavic studies, sociology, Spanish, theatre, visual arts, women's studies.

Residence
Academic year 1989-90
Single room $1 726
Double room $1 468
The student residences on campus are Marchand Hall (336 men and women), Stanton Hall (359 men and women), Leblanc Hall (113 men and women), Thompson Hall (459 men and women), and Brooks Residence (708 men and women). Students with an admission average of 85% or better are given priority for accommodation in residence.

Scholarships and Financial Assistance
Students in financial need may apply for assistance from a variety of sources. Government assistance is available to full-time students in the form of grants and/or loans and to part-time students as bursaries or loans.

For further information concerning government assistance see the introductory section *Financial Assistance for Students* and check with the university's Student Financial Aid Office, which will also have details on bursaries and scholarships offered by the university.

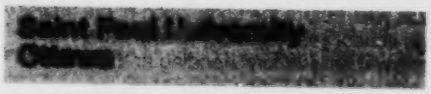
Tuition Fees 1988-89
(including incidental fees)
Medicine $1 954
Engineering $1 620
Science (pre-science year) $3 240
All other programs $1 569

Further Information
Inquiries about undergraduate admission should be directed to
Mr. Gregory J. Marcotte, Director of Admissions
Office of the Registrar (Admissions)
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3928

Information and application forms for student awards and loans may be obtained from
Ms. Danielle Delorme, Director
Student Financial Aid Office
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2484

For information about university programs, write to
Paul Giroux, Liaison Co-ordinator
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3935

Inquiries regarding campus visits for students should be directed to
Campus Tours
Office of the Registrar
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3937



Saint Paul University is federated with the University of Ottawa. It offers programs in Theology (Certificate, B.Th., M.A.(Th.), Ph.D.(Th.)), Canon Law (B.C.L., M.C.L., Ph.D. (C.L.)), Pastoral Studies (M.A. in Past. St.), Mission Studies (Certificate, M.A. in Miss.) and, in French only, Animation (Certificate). All degrees and certificates are conferred jointly by the University of Ottawa and Saint Paul University.

For further information, please contact
The Registrar
Saint Paul University
223 Main St.
Ottawa, Ontario
Telephone (613) 236-1393

Queen's University

Kingston

Principal: David C. Smith

Enrolment 1989-90

	Undergraduate	Graduate
Full-time	12 336	1 818
Part-time	4 034	537

Faculties and Schools
Faculty of Arts and Science
School of Business
School of Physical and Health Education
Faculty of Applied Science
School of Nursing
School of Rehabilitation Therapy
Faculty of Medicine
Faculty of Law
Faculty of Education
School of Graduate Studies
Queen's Theological College
School of Urban and Regional Planning
School of Public Administration
School of Industrial Relations

General Admission Requirements
Applicants must satisfactorily complete the senior secondary school graduation diploma (or equivalent) as certified by the school. No student with an average of less than 60% will be considered for admission. Because of space limitations, preference will be given to students with the best qualifications.

Students, in planning their secondary school programs, should note that a number of courses taken in the first university year have secondary school prerequisites. Details may be found in the general information book, *Your Future at Queen's*. Generally, students continuing university work in the mathematics or natural sciences are expected to have Grade 13 or equivalent standing in those subjects.

Conditional offers of admission are made each year before the completion of the final high school year to students who have achieved satisfactory standing and are recommended by their school officials. Such conditional offers of admission will be withdrawn if a student fails to complete the final secondary school year satisfactorily. The details of standing required for admission are determined each year and vary among the faculties and schools.

Bachelor of Arts
A Bachelor of Arts degree may be obtained in either three years or four years (honours). The three-year B.A. includes 15 courses over the three-year period, with a minor concentration of five courses in one subject area, plus supporting courses and electives. Minor concentrations are listed under specific subject areas.

The honours B.A. includes a minimum of 19 courses over the four-year period, arranged in one of the following patterns:
a) major concentration of 10 courses in one subject area, plus supporting courses and electives;
b) two medial concentrations of seven courses each, in two subject areas (one must be in the humanities or social sciences), plus supporting courses and electives;
c) a special field concentration of 14 courses in several different subjects organized around a particular period, culture, problem, or discipline area, plus electives. Concentrations for the honours program are listed under specific subject areas.

Admission to either the four-year honours B.A. or the three-year B.A. is based on successful completion of a full year of academic work at the OAC, Grade 13, or equivalent level as certified by the school. Although Grade 13 or OAC English is the only subject requirement for admission into a Bachelor of Arts program, students intending to take concentrations in languages, computing and information science, mathematics, statistics, or natural science should include appropriate prerequisites in their secondary school program. The list that includes admission requirements into the Bachelor of Science program (see the following section) is a guide to the prerequisites for minor or medial concentrations in computing and information science, mathematics, statistics, and natural science subjects.

Honours concentrations entirely in mathematics and the natural sciences lead to the degree of B.Sc. (Honours).

Bachelor of Science
A Bachelor of Science degree takes four years to complete and consists of a minimum of 20 courses arranged in one of the following patterns:
a) a major concentration of 10 courses designated by one department, plus supporting courses and electives; or
b) two seven-course medials in two related science subject areas, plus six electives. Combinations of medials are restricted to those specified in the calendar for the Faculty of Arts and Science; or
c) a highly specialized concentration of up to 18 courses involving intensive study in a given area specified by one or more departments, plus electives. Major concentrations and specialized concentrations are listed under specific subject areas. Fourteen-course concentrations in the B.Sc. honours program are listed under the heading *Mathematical and Physical Sciences*, below.

Requirements for admission to the B.Sc. programs are as follows: as a minimum, applicants must present any three credits chosen from OAC algebra and geometry, calculus, chemistry, and physics. If the Grade 13 program is followed, three of algebra, functions and relations, calculus, chemistry, and physics are required.

Please see the book *Your Future at Queen's* for recommended prerequisites for each science discipline.

Candidates lacking the recommended prerequisites must make up the deficiencies in first year. Applicants who are short prerequisite courses for B.Sc. programs may be required to enrol as B.A. students until these deficiencies have been overcome.

Biological Sciences

• Bachelor of Arts

Three-year (minor concentration)
Available in: biochemistry, biology, life sciences.

Four-year honours (medial concentration)
Available in: a concentration in biology, plus a concentration in a subject area from the humanities or social sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Four-year honours (major concentration)
Available in: biology.

Four-year honours (medial concentration)
Available in: biochemistry and computing information science, biology and chemistry, biology and geological sciences, biology and geography, biology and computing information science, biology and mathematics, biology and psychology, biology and statistics.

Four-year honours (subject of specialization)
Available in: biochemistry, biology, life sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/ Recreation

• Bachelor of Education
The Faculty of Education offers programs leading to a Bachelor of Education or a Diploma in Technical Education. In most cases students qualify for the Ontario Teacher's Certificate, but they can qualify for the degree without certification. The two program routes are consecutive (one year, postdegree) and concurrent (offered jointly with arts and science).

Continuing education for teachers is available and programs leading to a Master of Education degree may be taken on either a part- or full-time basis.

• Bachelor of Education – Consecutive Programs
The Faculty of Education offers three one-year programs leading to a B.Ed. for graduates of a general or honours degree program. Upon completion, graduates will

normally be recommended by the Ontario Ministry of Education for an Ontario Teacher's Certificate.

The three programs are: primary-junior for teachers of kindergarten to Grade 6, junior-intermediate for Grades 4 to 10, and intermediate-senior for Grades 7 to 13.

Candidates complete a practicum that includes student teaching and community service. The eight weeks of student teaching take place in selected elementary and secondary schools in eastern and northern Ontario. The community service involves educationally related practical experience in the community.

Technological studies program
This program leads to the Ontario Teacher's Certificate and qualifies the holder to teach in the technical department of a secondary school in Ontario. Applicants must have completed Ontario Grade 12 (or equivalent) plus five years of further education or at least two years' work experience.

Non-certificate programs
There is provision for candidates to complete a program leading to the B.Ed., which may not lead to the Ontario Teacher's Certificate. Candidates may wish practicum experience in areas that do not lead to this certificate, such as community colleges, art galleries, or community theatres.

Further information about any of the programs may be obtained from the Registrar, Faculty of Education, Queen's University, Kingston, Ontario K7L 3N6.

Faculty of Arts and Science/Faculty of Education – Concurrent Programs
The Faculty of Arts and Science and the Faculty of Education offer concurrent programs leading to the following degrees: B.A./B.Ed., B.A. (Honours)/B.Ed., B.Sc. (Honours)/B.Ed. The requirements for, and structure of, each of the arts and science degrees is described above.

During the first three years, students take 5 of the courses required for the arts and science degree, and complete approximately 30% of the requirements for the B.Ed. degree. Students working toward an honours degree in arts and science spend their fourth year entirely in arts and science, returning to the concurrent program for their 4th and final year.

In the fall term of the final year of the program, students take any courses needed to complete the requirements for the arts and science degree, and they also complete the remaining course requirements for the B.Ed. degree. During the winter term, students complete a four-month internship in selected schools.

Admission requirements
Applicants must satisfy the general admission requirements for Queen's, plus the specific admission requirements for the desired arts and science degree program and concentration. It is also recommended that students complete Grade 12 English and mathematics.

• Bachelor of Physical and Health Education and Bachelor of Arts Program

Combined program
A four-year program consisting of 25 courses in arts and physical and health education. Courses in biology, psychology, sociology, anatomy, and physiology set the basis for the specific theoretical and practical study of sport, fitness, health, and physical activity. Optional courses are available in arts, science, commerce, and physical activity theory and practicum so that preparation for future careers is optimal. Upon successful completion of the program, students are granted a Bachelor of Arts degree and a Bachelor of Physical and Health Education degree.

Admission requirements
Grade 13 or the OSSD, including one credit in chemistry and one in English. Students are advised to include Grade 13 or OAC physical and health education if offered by their school.

Engineering and Applied Sciences

• Bachelor of Science – Engineering
A four-year engineering program offered by the Faculty of Applied Science leading to a Bachelor of Science. The first year is common to all engineering programs, with the student taking courses in mathematics, physics, chemistry, geology, engineering graphics, computer programming, and one elective course dealing specifically with the impact of technology on society.

Before beginning second year, the student must select one of the following 10 programs: chemical engineering, engineering chemistry, civil engineering, electrical engineering, geological engineering, mathematics and engineering, mechanical engineering, metallurgical engineering, mining engineering, or engineering physics.

Admission requirements
Completion of Grade 13 or the OSSD. The Grade 13 progam must include three credits in mathematics (functions and relations, calculus, algebra), one credit in chemistry, one credit in physics, and one credit in English. The OSSD must include OAC credits in calculus, algebra and geometry, chemistry, English, and physics. Admission is based on a comprehensive evaluation of the student rather than on academic record alone, and students are invited to submit any information, in addition to Queen's requirements, that they feel would be helpful in making admission decisions.

Fine and Applied Arts

• Bachelor of Arts

Three-year general (minor concentration)
Available in: art history, drama, film, music.

Four-year honours (medial concentration)
Available in: art history, drama, film, music.

Four-year (major concentration)
Available in: art history, drama, film, music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Fine Art
This is a four-year program offered by the Department of Art that maintains a balance of studio and academic studies. The program promotes high critical standards and a high level of awareness, understanding, and excellence in the study and practice of art.

The curriculum consists of 20 courses: 10 courses in fine art, five in art history, and five electives. The studio courses include drawing, painting, sculpture, and printmaking, for a minimum of 18 hours each week.

Graduates of the Bachelor of Fine Art program may pursue a variety of careers, including careers as artists, secondary school teachers (provided they complete a fifth year at a faculty of education), teachers in postsecondary institutions, or as museum or gallery personnel.

Admission requirements
Grade 13, OSSD, or equivalent, and OAC/Grade 13 English. Grade 13 or OAC art should be included where possible, but it is not mandatory. Assessment for admission rests on an interview and portfolio examination, as well as on academic achievement.

• Bachelor of Music
This is a broad four-year course of study designed to meet the needs and interests of future professional musicians, with areas of specialization in performance, instrumental and choral music in education, history and literature of music, and theory and composition.

Students in all of these concentrations have the option of studying performance in individual lessons. In addition, all students participate in the work of the small and large ensembles of the Music Department. This program also includes a minimum of four and a maximum of six courses offered by other departments.

Admission requirements
Academic requirements: Grade 13 or the OSSD, and OAC/Grade 13 English.
Music requirements: The following Royal Conservatory of Music (Toronto) levels (or equivalents) are normal requirements:
Grade 9 piano, Grade 2 rudiments; *or*
Grade 8 organ, Grade 8 piano, and Grade 2 rudiments; *or*
Grade 8 standard orchestral or band instrument, or classical guitar, or voice, or free bass accordion; Grade 6 piano; and Grade 2 rudiments.

All applicants will be invited to appear for a personal audition, interview, and brief aural discrimination and music rudiments tests. Auditions are normally held in March or April of each year, except where distance makes a personal visit unduly difficult. In this case, applicants may be permitted to submit an audition tape authenticated by their teachers.

Applicants who do not have the music requirements specified above, but who are experienced as instrumentalists or singers, may be admitted on the basis of the qualifying audition. Those candidates who have not completed the Grade 6 piano requirement prior to entering the B.Mus. program must do so, at their own expense, before proceeding to second year.

• Licentiate in Music
The Licentiate in Music program is a two-year diploma course designed for talented performance students who value a focus on performance study more than the breadth of music training inherent in a degree program.

Admission Requirements
Academic requirements: Grade 13 or the OSSD, and OAC/Grade 13 English.

Music requirements: Royal Conservatory of Music (Toronto) Grade X, or equivalent. Applicants are also required to appear for an audition (details of the audition requirements for a candidate's area of performance may be obtained by writing to the School of Music). If distance makes an audition in person difficult, applicants may be permitted to prepare and send an audition tape (authenticated by their teacher).

Health Professions and Medical Sciences

• Bachelor of Arts

Three-year general (minor concentration)
Available in: health.

• Bachelor of Nursing Science
A four-year integrated program of basic sciences, humanities, and nursing leading to a Bachelor of Nursing Science degree. Clinical practice in hospitals and community health settings is an important element within each year of the program. In addition, there are five weeks of concentrated clinical practice at the end of the first and third years of the program.

The Bachelor of Nursing Science program prepares individuals for employment in a wide range of health care services, including general hospitals, chronic care and rehabilitative facilities, home care, psychiatric services, northern nursing services, and public health. With experience, individuals may also embark on careers in nursing administration and nursing education.

Graduates are eligible to write examinations for registration as a nurse in Ontario and other Canadian provinces.

Admission requirements
Grade 13 or the OSSD, with one credit in mathematics and one credit in chemistry. Grade 13 or OAC biology and English are strongly recommended.

The deadline for receipt of applications is March 1.

• Doctor of Medicine
A four-year program leading to the degree of Doctor of Medicine. The main objective of the structured program is to afford students the maximum opportunity to develop the knowledge, skills, and attitudes that will best motivate and equip them to choose the field of endeavour most appropriate to their talents. The curricula and educational methods are under continual scrutiny with this main objective in view.

Admission requirements
Seventy-five students are admitted annually into the first medical year. They are selected on the basis of a strong academic record and the assessment by the Admissions Committee of personal characteristics felt to be most appropriate for the study of medicine at Queen's and for the subsequent practice of medicine. The application centre must receive applications by November 1.

To be eligible for admission, students must have successfully completed at least two years of university work beyond Grade 13 and have credit for one full university course, including laboratory work, in each of the following subject areas: general physics, general chemistry, general biology or zoology, and organic chemistry.

All candidates are requested to write the New Medical College Admissions Test. Those who have completed only one year of university work may wish to write the test in the spring following submission of the application. However, those who have completed two or more years of university work must write the test before the deadline date for receipt of applications.

The Admissions Committee does not give preference to applicants who have studied in a particular undergraduate program. The baccalaureate degree is not required, and candidates having completed two or three years of university work will be given the same consideration as candidates possessing an undergraduate or graduate degree. Place of residence and location of the university where studies have been undertaken are not criteria in the selection process. In making its selection, the Admissions Committee carefully considers autobiographical information submitted by the applicant and assessments made by references. Candidates may seek additional information by writing or telephoning the Office of Undergraduate Affairs and Admissions, (613) 545-2542.

• Occupational Therapy
A four-year degree program leading to a Bachelor of Science (Occupational Therapy). The student will take courses in anatomy, occupational therapy, physiology, kinesiology, psychology, sociology, plus a number of options. In the fourth year the student will study specialized research and clinical topics such as principles of management in rehabilitation, technical aids, and research in occupational therapy.

There are eight weeks of supervised clinical practice between the second and third years, and 16 weeks between the third and fourth years, to complete university requirements. This precludes summer employment.

Admission requirements
Grade 13 or the OSSD, with one credit in mathematics, one credit in chemistry, and one credit in biology. Selection will be based on academic qualifications and on information gained from a personal background questionnaire. An interview is not mandatory and is not an integral part of the admission process. Enrolment is limited to 25 students. The deadline for receipt of applications is March 1.

• Physical Therapy
A four-year degree program leading to a Bachelor of Science (Physical Therapy). Students will take courses in anatomy, kinesiology, physical therapy, physiology, and psychology, plus a number of options. In the fourth year, they will study research and clinical development and the administration of a physical therapy department, and will conduct an in-depth study of a selected clinical subject.

In addition to clinical work during the academic year, there are eight weeks of supervised clinical practice between the second and third years, and 16 weeks between the third and fourth years, to complete university requirements and for provincial licensing. This precludes summer employment.

Admission requirements
Grade 13 or the OSSD, with one credit in mathematics, one credit in chemistry, and one credit in biology. Grade 13 or OAC physics is strongly recommended. Selection will be based on academic qualifications and on the information gained from a Personal Background Information Form. An interview is not mandatory and is not an integral part of the admission process. Enrolment is limited to 25. The deadline for receipt of applications is March 1.

Humanities and Related Courses

• Bachelor of Arts

Three-year (minor concentration)
Available in: English, French, German, Greek, Italian, Latin, modern literature, philosophy, religion, Russian, Spanish, women's studies.

Four-year honours (medial concentration)
Available in: English, French, German, Greek, Italian, Latin, philosophy, religion, Spanish, women's studies.

Four-year honours (major concentration)
Available in: English, French, German, Greek, Latin, philosophy, religion, Spanish.

Four-year honours (special field concentration)
Available in: Canadian studies, classics, classical studies, Commonwealth studies, Greek language and civilization, language and linguistics, Latin language and civilization, Spanish and Latin American studies, translation, women's studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Theology: B.Th.
A three-year program in theology for a few selected older students (over 31 years of age). Completion of five arts courses is a prerequisite.

• Master of Divinity: M.Div.
A three-year graduate program for students preparing for the ordained ministry of the church. Courses include Hebrew Bible, New Testament, biblical languages, study of religion, systematic theology, church history, ethics, and the practice of ministry.

• Master of Theology: Th.M.
A one-year post-M.Div. program for clergy and church workers who seek further training in pastoral care and counselling.

• Master of Theological Studies: M.T.S.
A two-year graduate program in academic theology that enables students to study particular areas in some depth.

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year (minor concentration)
Available in: chemistry, computing and information science, geological sciences, mathematics, physics, statistics.

Four-year honours (medial concentration)
Available in: a combined concentration of chemistry, computing and information science, geological sciences, mathematics, physics, or statistics, and another concentration area from the humanities or social sciences.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Four-year honours (major concentration)
Available in: chemistry, computing and information science, geography, geological sciences, mathematics, physics, statistics.

Four-year honours (medial concentration)
Available in: chemistry and biology, chemistry and computing and information science, chemistry and geography, chemistry and geological sciences, chemistry and mathematics, computing and information science and biochemistry, computing and information science and mathematics, computing and information science and physics, computing and information science and geological sciences, computing and information science and statistics, geological sciences and biology, geological sciences and geography, mathematics and physics, physics and statistics.

Four-year honours (specialization concentration)
Available in: astrophysics, cognitive science, chemical physics, chemistry, geological sciences, geography, geological sciences with physics, mathematical physics, mathematics, physics, statistics, theoretical physics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year (minor concentration)
Available in: classical studies, economics, geography, history, political studies, psychology, sociology.

Four-year honours (medial concentration)
Available in: classical studies, economics, geography, history, political studies, psychology, sociology.

Four-year honours (major concentration)
Available in: classical studies, economics, geography, history, political studies, psychology, sociology, women's studies, studies in culture, communications and society.

Four-year honours (special field concentration)
Available in: classical studies, communication and society, Greek language and civilization, Latin language and civilization, mediaeval studies, social behaviour, Spanish and Latin American studies, studies in culture, translation, women's studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Four-year honours (major/specialization)
Available in: geography, psychology.

Four-year honours (medial concentration)
Available in: geography and biology, geography and chemistry, geography and geological sciences.

Four-year honours (subject of specialization)
Available in: cognitive science, geography.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Commerce
A four-year program designed to prepare students for careers in business, government, or law. The curriculum provides a balanced program embracing the fields of accounting, finance, marketing, production, industrial and human relations, computing, and quantitative methods. The student can select optional courses in computing and information science, economics, geography, history, languages, mathematics, philosophy, political studies, psychology, sociology, and the sciences.

Admission requirements
Grade 13 or the OSSD, with one credit in English and two credits in mathematics (chosen from Grade 13 algebra, calculus, functions and relations, or OAC calculus and algebra and geometry).

The School of Business also offers a two-year postgraduate program in business studies leading to the Master of Business Administration degree.

• Bachelor of Laws
A three-year program in law leading to the LL.B. degree.

The Faculty of Law, with a total enrolment of under 450 students and a very favourable professor-student ratio, encourages personal contact between professors and students. The faculty has library resources in the fields of international law, constitutional law, administrative law, correctional and criminal law, family law, and labour relations law.

Admission requirements
A bachelor's or equivalent degree from a recognized university, *or* at least two years of academic work in a recognized university after Grade 13, *or* at least three years of academic work in a recognized university after Grade 12. Applicants should have yearly averages over 75% and law-aptitude test scores in the top half of the scoring range (32 or better) in order to be competitive. Place of residence and location of the university where studies have been taken are not considered.

All candidates are requested to write the Law School Admission Test.

• Master of Industrial Relations
This one-year multidisciplinary Master of Industrial Relations (M.I.R.) degree program is a joint undertaking of the Industrial Relations Centre, School of Business, Faculty of Law, and Department of Economics. The program stresses the application of theoretical knowledge and empirical analysis and prepares students for a variety of career opportunities in personnel and industrial relations, applied and policy oriented research, and non-university teaching.

The program is designed to attract both new graduates and career employees.

Admission requirements
A four-year honours degree with upper second-class standing, or a three-year bachelor's degree with relevant and substantial work experience and demonstrated solid evidence of strong academic potential. Applicants must have successfully completed a basic university-level course covering both micro- and macro-economics; a good understanding of elementary statistics is also desirable.

• Master of Urban and Regional Planning (M.Pl.)
A two-year program of graduate studies to train professional planners. Planning is an interdisciplinary field, comprised primarily of social sciences, with some introduction to design and environmental studies. The M.Pl. program links theory with action and integrates management perspective in planning and development studies. Graduates of the program are employed as professional planners by public and private agencies.

The curriculum is comprised of six required core courses and eight or six electives, along with a "report" or "thesis", respectively. The core courses introduce basic theories and techniques common to all fields of urban and regional planning.

The school's offerings of elective courses are meant to promote an in-depth understanding of housing, land-use planning and community development, and progra planning for human services. A field of concentration will normally consist of three courses, approved by the faculty adviser, from the offerings of the school or cognate disciplines, at least one of which will be a methodological course. Beyond the field of concentration a student will have ample opportunity to pursue other academic and professional interests, with the approval of the faculty adviser, through the remainder of the three or five electives from within the school as well as in other divisions of the university.

Admission requirements
A four-year honours bachelor degree in the social sciences, humanities, or design and engineering disciplines required. Applicants normally should have an upper second-class standing in the undergraduate degree to be considered for admission. A few candidates with a three-year bachelor degree are admitted as qualifying students for a year before being accepted in the M.Pl. program.

• School of Public Administration
The Queen's School of Public Administration offers two graduate degree programs leading to a Master of Public Administration. The first is a one-year professional program designed to meet the needs and interests of recent university graduates and mid-career public servants seeking to upgrade their qualifications. The school also offers a two-year, part-time, In-Service Professional (IPS) program designed for working public servants. Forty-eight students are enrolled annually in MPA; eighteen of these are taking the IPS program. The MPA program is interdisciplinary, with a central focus on public policy and the development of analytical and managerial skills, working toward a full understanding of the economic, political, and social context in which decisions are made.

Admission requirements
A university degree is usually required. Candidates who do not possess university degrees may be considered on the basis of employment experience.

Residence
The university provides residence accommodation in single and double rooms for approximately 1 100 undergraduate men and 1 400 undergraduate women, including a fair proportion of upper-year students, and 300 graduate students of both sexes.

Bedrooms are furnished with a single bed, desk, chair, wardrobe or closet, and dresser for each student. Each room is equipped with a private telephone. In most areas facilities include sitting rooms on various floors, large central lounges, study rooms, and music and recreation areas. Laundry equipment is available in each residence and includes coin-operated washers and dryers, irons, and ironing boards.

An Accommodation Listing Service is provided to assist students, faculty, and staff to locate off-campus private housing accommodation. Information regarding the availability of private accommodation is on display in the office.

Office hours are 8:30 a.m. to 4:30 p.m. Monday to Friday, during the fall and winter term.

Inquiries should be addressed to the Office of Apartment and Housing Service, 169 University Avenue, Kingston. Telephone (613) 545-2501.

Residence fees 1988-89
$2 235(excluding meals)
$4 150 (single room including meals)
$3 994 (double room including meals)

Tuition Fees 1988-89
Tuition fees for full-time students are subject to change, but currently are as follows for Canadian students admitted to first year:
Applied science $1 531
Arts and science $1 411
Commerce $1 411
Education $1 411
Law $1 411
Medicine $1 794
Nursing $1 411
Physical and health education $1 411
Rehabilitation therapy $1 411
MBA $1 417
For information on international student fees, please contact the Admissions Office.

Further Information
For an opportunity to view university life as a Queen's student, students are welcome to visit the campus Monday through Friday at 10 a.m. during the academic year. During the summer months, students are invited to participate in guided tours of the campus, which leave the Liaison Office at 1 p.m. Monday – Friday.

Inquiries about general information and visits to Queen's should be directed to
Liaison Office
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2217

Inquiries regarding admission should be directed to
Assistant Registrar (Admissions)
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

Information on financial assistance available from the Student Awards Branch of the Ministry of Colleges and Universities can be found at the beginning of this guide. Students can make application for government assistance through the office of the Assistant Registrar (Student Awards).

Queen's University offers entrance and in-course scholarships based on academic merit. In addition, bursaries are available to assist students in emergency situations, and loans for upper-year students experiencing financial difficulty can be considered.

Information about student awards and loans may be obtained from
Assistant Registrar (Student Awards)
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2216

Royal Military College

Kingston

Commandant and Vice-Chancellor: Commodore E.R. Murray

The Royal Military College opened in 1876. Its objectives are:
1. to prepare and motivate officer cadets for effective service as commissioned officers in the Canadian Forces by:
– providing a university level education in both official languages in appropriate disciplines designed on a broad base to meet the unique needs of the forces, and
– developing qualities of leadership;
2. to improve in appropriate fields the educational background of students who are commissioned officers in the Canadian Forces by providing undergraduate and postgraduate courses in both official languages.

The courses of instruction provide a sound and balanced liberal, scientific, and military education. Cadet-wing organization and military training seek to develop a high degree of physical fitness in the officer cadets and to imbue them with a sense of responsibility, self-discipline, fair play, and fellowship. Officer cadets are given a basic knowledge of all elements while training in their chosen classifications and obtain a good understanding of the problems of national defence.

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	649	64
Part-time	61	30

General Admission Requirements
Ontario applicants completing Grade 13 may apply for Royal Military College or Royal Roads Military College. The OSSHGD and the OSSD, with required subjects, normally will be given equal credit for admission purposes. Those completing Grade 12 of the current five-year program may apply to the College militaire royal de Saint-Jean. Evidence of final-year academic standing is not required at time of application.

A candidate for admission must:
1. be a Canadian citizen;
2. meet the minimal medical classification for enrolment as prescribed;
3. obtain a passing standing in a series of pre-enrolment tests as prescribed;
4. be single and undertake to remain single until commissioned;
5. possess the necessary academic qualifications;
6. obtain a passing standard from the precademic Basic Officer Training Course.

The preferred age range for entry to RMC, RRMC, or first year (not preparatory year) at CMR is from 16 years of age on January 1 of the year of enrolment to 20 years of age on January 1 of the year of enrolment. For entry to the preparatory year at CMR, the preferred age range is from 16 years of age on January 1 of the year of enrolment to 19 years of age on January 1 of the year of enrolment.

Academic Qualifications
All degree programs at Canadian military colleges are of four years' duration beyond the normal secondary school level required for university admission, except for candidates entering the College militaire royal de Saint-Jean, where a five-year course is required.

• Degree Programs Offered
Arts, Engineering, Science

Required courses for all programs in arts include English, mathematics, military leadership and management, physical education, science, and second-language training (English or French). Required courses for all programs in science or engineering include economics, English, history, military leadership and management, physical education, second-language training (English or French), and two additional arts elective courses.

Language of Instruction
Both English and French are languages of instruction. Many degree courses are offered in both languages, but examinations may be taken in the language of the candidate's choice.

Royal Military College
Ontario sceondary school students must present either the OSSHGD or the OSSD, with a minimum of six OAC (Grade 13) credits.

During the period of transition to the new OSSD, the OSSHGD and the OSSD will normally be given equal credit for admission purposes. The length of time taken by an applicant to complete the secondary school program will not of itself be a determining factor in the admission decision.

To meet the minimum requirements for admission to the general course at the Royal Military College, an applicant must offer standing at a level satisfactory to the college in the following subjects:
1. English or French (one credit course acceptable for Ontario applicants);
2. mathematics (calculus, and functions and relations); and
3. two or three of algebra, chemistry, and physics.

If OACs are taken, the OAC prerequisites, in addition to English or French, are calculus, algebra/geometry, chemistry, physics, and one elective OAC from those available for study.

To meet the minimum requirements for admission to the arts course at the Royal Military College, an applicant must offer standing at a level satisfactory to the college in the following subjects:
1. English (one or more credits);
2. functions and relations or calculus (if OACs are taken, calculus is preferred, although algebra/geometry is acceptable. Students with a credit in finite mathematics may be considered for admission provided they have obtained good standing in Grade 12 mathematics, advanced level);
3. at least two of the following: history, French, calculus, algebra, physics, chemistry, geography, economics, classical studies, social studies, biology, or another language (if OACs are taken, four electives remain and may be chosen from any of the offered OACs, but only one may be selected from among the following: dramatics arts, music, family studies, physical and health education, technology studies, visual arts);
4. other acceptable subjects to complete Grade 13.

In other provinces
English or French, mathematics, and one or two of chemistry and physics, and any other approved subject (or subjects) to make up the full requirements for graduation in the current year of work.

Royal Roads Military College
Requirements vary only slightly from those of the Royal Military College.

Preparatory year at Collège militaire royal de Saint-Jean
Graduates from secondary schools in Ontario should have successfully completed Grades 11 and 12 of the current five-year course, including the following subjects: English (for English-speaking applicants) or *français* (for French-speaking applicants), mathematics, physics, and chemistry.

Physical Requirements
Candidates are required to meet the common enrolment standards of the Canadian Forces.
The fundamental medical requirement is a sound, healthy body with normal mental and muscular co-ordination. Particular attention is given to the cardiovascular system, respiratory system, central nervous system, visual acuity, colour vision, eye muscle balance, organs of speech, and sense of hearing. Any condition that, as it exists, or that, due to possible progression, may limit the candidate's career as a member of the Canadian Forces will be cause for rejection.

Candidates should be prepared to participate in a vigorous, progressive physical training program.

Financial Assistance
The fees of an officer cadet who is a member of the Regular Officer Training Plan will be paid for by the Department of National Defence. A cadet is also entitled to pay and allowances prescribed by the plan.

Applicants under the Reserve Entry Training Plan are eligible to apply for a number of scholarships and bursaries, including the Ontario Student Assistance Program.

Dominion Cadetships
Fifteen Dominion Cadetships, each worth the value of tuition, meals, and accommodation, are available to first-year reserve entry cadets at Canadian military colleges. A candidate must be the child of a person who died, was killed, or is severely incapacitated as a result of service in a component of the Armed Forces of Canada.

Applications must be made in writing to
National Defence Headquarters
Ottawa, Ontario K1A 0K2
Attention: Director of Recruiting and Selection

Royal Military College Club of Canada Foundation Scholarships
A number of scholarships are open to competition each year among all reserve entry applicants for admission to the Canadian military colleges. Each scholarship has a value of $1 000 per year until graduation, providing the holder successfully completes each previous college year. An applicant, to be awarded a scholarship, must be accepted as a reserve entry candidate for the Royal Military College, Kingston, Ontario; Royal Roads Military College, Victoria, B.C.; or College militaire royal de Saint-Jean, Quebec.

Further information may be obtained from
Secretary-Treasurer
RMC Club of Canada
Kingston, Ontario K7K 5L0

Residence Accommodation
All cadets at Canadian military colleges are in full-time residence at the colleges. At RMC single rooms are normally provided, except in the first year, when it is usually beneficial to place two cadets in a room. Dining facilities are provided. Full recreational facilities, including an indoor swimming pool, are located near the residences.

The college is divided into squadrons under the direction of cadet officers in their senior year, with an experienced serving officer as squadron commander. Overall direction is in the hands of the Director of Cadets.

Fees (Reserve Entry Cadets)
The following scale applies to all officer cadets attending a Canadian military college with reserve status *(fees quoted are subject to revision)*:
1. college fee of $1 080;
2. payment for meals and accommodation (approximately $240 per month while in residence at a college);
3. an annual recreation club fee of $80.

Further Information
Direct inquiries to the commanding officer of any Canadian Forces Recruiting Centre, or write to
Registrar
Royal Military College of Canada
Kingston, Ontario K7K 5L0
Telephone (613) 541-6302

Ryerson Polytechnical Institute

Toronto

President: Terence Grier

Enrolment 1988-89

	Undergraduate
Full-time	8 750
Part-time	10 624

The following program listing outlines basic admission requirements for Ryerson programs in 1987-88. Students are advised to contact the Office of Admissions for more detailed information.

Programs Offered

• Administration and Information Management – Degree
Four years, leading to a Bachelor of Applied Arts (Administration and Information Management). Students may apply to graduate with a diploma after successful completion of the first three years of the program.

Admission requirements
OSSGHD or OSSD with six Grade 13/OAC credits including Grade 13 English with a minimum of 60% or higher. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum. Advanced Grade 12 mathematics credit is recommended, and keyboarding skill of 35 wpm is strongly recommended. OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English.

• Aerospace Engineering – Degree
Four years, leading to a Bachelor of Technology (Aerospace Engineering). Students may apply to graduate with a diploma in Aerospace Engineering Technology after successfully completing the first three years of the program.

Admission requirements
An OSSHGD or OSSD with six Grade 13/OAC credits, including English, functions and relations, calculus, physics, and chemistry. Applicants lacking one of the above Grade 13/OAC prerequisites may be considered on an individual basis. Minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects. Calculus and algebra and geometry OACs will be the accept-able mathematics courses. English/*anglais* OAC 1 will be the preferred OAC English.

• Applied Computer Science – Degree
Four years leading to a Bachelor of Technology (Applied Computer Science).

Admission requirements
An OSSHGD or OSSD with six Grade 13/OAC credits, including English, two mathematics (one of which must be functions and relations and one of calculus or algebra). Preference will be given to those who have obtained 60% or higher in the above subjects. It is recommended that applicants included Grade 13/OAC physics in their studies. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subjects to competition, candidates may be required to present averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects as noted above. Two of calculus, algebra and geometry, or finite mathematics will be the required OAC mathematics. English/*anglais* OAC 1 will be the preferred OAC English.

• Applied Geography – Degree
Four years leading to a Bachelor of Applied Arts (Geography).

Admission requirements
An OSSHGD or OSSD with six Grade 13/OAC credits. It is recommended that applicants include geography, English, and mathematics (one of calculus, algebra, or functions and relations) in their Grade 13 program. Applicants will be requested to appear for an interview, where travelling distance permits. The minimum overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. The admissions interview and academic performance will be used in the admissions process. OACs may be substituted for/combined with Grade 13 subjects as noted above. The recommended OAC mathematics will be one of calculus, algebra and geometry, or finite mathematics. English/*anglais* OAC 1 will be the recommended OAC English.

• Architectural Science – Degree
Four years leading to a Bachelor of Technology (Architectural Science).

Admission requirements
An OSSHGD or OSSD with six Grade 13/OAC credits, including English, mathematics (functions and relations preferred), and physics. Applicants must have 60% or higher in each of the above subjects. Applicants will be asked to submit a portfolio and, where travelling distance permits, to appear for an interview.

The minimum Ryerson overall average for admission is 60% or higher in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects as noted above. With OSIS, the minimum

mathematics requirement will be Grade 12 advanced level mathematics with a minimum of 60%. English/*anglais* OAC 1 will be the preferred OAC English.

• Arts – Diploma
Three years leading to a Diploma in Arts.

Admission requirements
OSSGD or OSSD including any three Grade 12 academic subjects, such as English, economics, history, geography, any language, mathematics, physics, chemistry, or biology, with grades at the advanced level of 60% or higher or grades at the general level of 70% or higher. Applicants will be requested to appear for an interview, if travelling distance permits.

• Business Management – Diploma and Degree
Three years leading to a Business Administration diploma; one year of study beyond Ryerson Diploma in Business Administration leading to a Bachelor of Business Management degree.

Admission requirements
Diploma: OSSHGD or OSSD with six Grade 13/OAC credits including Grade 13 credits in English (60% minimum), and mathematics (60% minimum; one of functions and relations, algebra, or calculus). Grade 13 mathematics of investment or finance is not an acceptable mathematics course. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects. The OAC mathematics requirement will be one of calculus, or algebra and geometry, or finite mathematics (calculus or algebra and geometry preferred). English/*anglais* OAC 1 will be the preferred OAC English.

Degree: Ryerson Business Administration Diploma with a 2.38 grade point average. A limited number of students will be admitted to full-time degree studies and will be ranked according to grade point average.

• Chemical Engineering – Degree
Four years leading to a Bachelor of Technology (Chemical Engineering). Students may apply to graduate with a diploma in Chemical Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 credits in chemistry, physics, functions and relations, and calculus. English (Grade 12, advanced) with a final result of 60% or higher is also required. Applicants lacking one of the above Grade 13/OAC credits may be considered on an individual basis. The minimum Ryerson overall average for admission is 60% or higher in six Grade 13 or OAC credits. Subject to competition, candidates may be required to present averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects as noted above. Calculus and algebra and geometry OACs will be the acceptable mathematics courses.

• Civil Engineering – Degree
Four years leading to a Bachelor of Technology (Civil Engineering). Students may apply to graduate with a diploma in Civil Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 credits in chemistry, physics, functions and relations, and calculus. English (Grade 12, advanced) with a final result of 60% or higher is also required. Applicants lacking one of the above Grade 13/OAC credits may be considered on an individual basis. The minimum Ryerson overall average for admission is 60% or higher in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects as noted above. Calculus and algebra and geometry OACs will be the acceptable mathematics courses.

• Early Childhood Education – Degree
Four years leading to a Bachelor of Applied Arts (Early Childhood Education). Part-time attendance permitted by special application.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 English (minimum 60% or higher). Candidates will be selected on the basis of their overall Grade 13 average (i.e., six Grade 13 credits or equivalent), the interview, and the essay as noted below. Approved students who do not hold either a valid standard Red Cross or St. John's first aid certificate must obtain a certificate within the first two months, subsequent to registration in year 1. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC courses. Subject to competition, candidates may be required to present averages above the minimum. OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English.

Applicants are required to submit a 750-word typewritten paper (two copies) with their application, describing their experiences with children and why they wish to pursue a career in early childhood education. Applicants should have experience working with children in groups. Examples of appropriate experiences are: volunteer work in day care centres, leading Brownie packs, camp counselling, work in parks and recreation, etc. Applicants with appropriate academic qualifications and acceptable essays will be required to attend an interview to assess these experiences and relevant personal characteristics, where travelling distance permits. Graduates from early childhood education diploma courses in Ontario CAATs may apply for admission to the third year. Admission guidelines and details on the equivalency seminar are featured in the current Ryerson calendar.

• Electrical Engineering – Degree
Four years full-time study leading to a Bachelor of Technology (Electrical Engineering). Students rnay apply to graduate with a diploma in Electrical Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including functions and relations, calculus, physics, and chemistry, 60% or higher, and Grade 12 advanced English, 60% or higher. Preference may be given to students with 60% or higher in Grade 13 algebra and will be given to those with the highest overall average in Grade 13 algebra. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC courses. Subject to competition, candidates may be required to present averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects. Calculus and algebra and geometry OACs will be the acceptable mathematics credits.

• Environmental Health – Degree
Four years leading to a Bachelor of Applied Arts (Environmental Health). Students may apply to graduate with a diploma in environmental health and may also pursue certification as Public Health Inspectors (C.P.H.I.(C.)), following successful completion of third year.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 English (60% or higher), and Grade 12 advanced chemistry (60% or higher). Biology Grade 11 (or higher) is strongly recommended. The minimum Ryerson overall average for admission is 60% in six Grade 13 or OAC credits. Subject to competition, candidates may be required to present averages above the minimum. Candidates who are 21 years of age and wish to be considered as mature students should refer to the mature student policy.

OACs may be substituted/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English.

• Fashion – Degree
Four years leading to a Bachelor of Applied Arts (Fashion). Students may apply to graduate with a Diploma in Fashion after

successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 English and mathematics, with final results of 60% or higher. (Mathematics of investment or finance are not acceptable Grade 13 mathematics courses.) The minimum Ryerson average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. Interview/portfolio as noted below and academic performance will be used in the admissions process. Applicants must state their intended option at the time of application, i.e., fashion design, or fashion merchandising. OACs may be substituted for/combined with Grade 13 subjects. The OAC mathematics credit can be one of calculus, algebra and geometry, or finite mathematics. English/*anglais* OAC 1 will be the preferred OAC English.

Although art is not treated as an academic prerequisite for entry into the fashion program, it is strongly recommended that if art courses (e.g., life and/or mechanical drawing and art history) are offered in the candidate's secondary school curriculum, they should be pursued.

Applicants will be required, when possible, to appear for an interview with the School of Fashion, at which time their aptitude for and interests in a career in fashion design and/or merchandising will be assessed. Students will be admitted into either the fashion design or the fashion merchandising option in the first year. Students may not change their option without the approval of the School of Fashion.

At the admission interview, applicants should present a portfolio of 10-12 items which provide evidence of versatility and creative awareness. This may include drawings, design projects, and garments. Leadership qualities and organizational skills can be expressed through slides or photographs of projects carried out at school or in the community, and by letters of reference from employers of those applicants with previous work experience.

• Food, Nutrition, Consumer, and Family Studies – Degree
Four years leading to a Bachelor of Applied Arts (Nutrition, Consumer, and Family Studies).

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 English (minimum final result of 60% or higher) and Grade 13 chemistry. Candidates will also be selected on the basis of their overall Grade 13 average (i.e., six Grade 13 credits or equivalent). Preference will be given to applicants with a minimum of 60% in Grade 13 chemistry. It is recommended that students who plan to specialize in nutrition should include in their studies mathematics (Grade 12, advanced) and biology (Grade 13/OAC). Students are encouraged to include a credit in Grade 13/OAC mathematics or equivalent, a Grade 13 social science, and a senior-level family studies course in their secondary school studies. Candidates intending to pursue the Family studies specialization may be admitted to the program without Grade 13/OAC chemistry if they receive the approval of the school chair. The minimum Ryerson average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects. Students are encouraged to include a Grade 13 mathematics credit, which could be any of the three OAC mathematics. English/*anglais* OAC 1 will be the preferred OAC English. Those interested in a teaching career in family studies should consult their guidance office concerning additional Grade 13 requirements for a second teaching subject.

• Graphic Communications Management – Degree
Four years leading to a Bachelor of Technology (Graphic Communications Management).

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 English. Grade 12 advanced chemistry and mathematics with a minimum of 60% or higher in each are also required. It is recommended that applicants include chemistry in their Grade 13/OAC program. An interview with a school faculty member may be required. The minimum Ryerson average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. Effective September 1992, Grade 11 advanced physics with a final result of 60% or higher will be a requirement.

OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English.

• Hospitality and Tourism Management – Degree
Four years leading to a Bachelor of Applied Arts (Hospitality and Tourism Management) plus the equivalent of one academic year of acceptable cumulative work experience (to be acquired before admission to fourth year). Students may apply to graduate with a diploma in Hotel, Restaurant, and Institutional Administration after successful completion of the first three years of the program.

Admission requirements
Diploma: OSSHGD or OSSD with six Grade 13/OAC credits including Grade 13 credits in English (60% minimum), and mathematics (60% minimum; one of functions and relations, algebra, or calculus). Grade 13 mathematics of investment or finance is not an acceptable mathematics course. Students are asked to submit with their application a résumé (two copies) and may be asked to appear for an interview. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects as noted above. The OAC mathematics requirement will be one of calculus, algebra and geometry, or finite mathematics (calculus or algebra and geometry preferred). English/*anglais* OAC I will be the preferred OAC English.

• Industrial Engineering – Degree
Four years leading to a Bachelor of Technology (Industrial Engineering). Students may apply to graduate with a diploma in Industrial Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, and including Grade 13 credits in English, functions and relations, calculus, physics, and chemistry. Applicants lacking one of the above Grade 13/OAC prerequisites may be considered on an individual basis. Minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subjects to competition, preference may be given to candidates presenting averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects as noted above. Calculus and algebra and geometry OACs will be the acceptable mathematics courses. English/*anglais* OAC 1 will be the preferred OAC English.

• Interior Design – Degree
Four years leading to a Bachelor of Applied Arts (Interior Design). Accredited by the Foundation for Interior Design Education Research (FIDER).

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including a minimum of 60% in English, mathematics (functions and relations preferred), and one of the following: history, art history, geography, economics, sociology, or family studies. Preference may be given to students who have included history or art history in their Grade 13 studies. An interview and portfolio will be required and will be used with the applicant's academic performance in the admissions process. Applicants required to travel more than 800 km for the interview should contact the School of Interior Design for other arrangements. Students should select physics (Grade 11 or higher) and the art option in

Grades 11, 12, and 13, if available. The minimum Ryerson average for admission is 60% in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects. The OAC mathematics requirement may be calculus, algebra and geometry, or finite mathematics. English/*anglais* OAC will be the preferred OAC English.

Applicants will be assessed on their aptitudes and interests for a career in interior design and will be required to appear for an interview, bringing with them a portfolio containing 12 to 15 items showing evidence of two- and three-dimensional creative ability. The student must have an aptitude for drawing.

• Journalism – Degree
Three years leading to a Bachelor of Applied Arts (Journalism).

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, and including Grade 13 English. Candidates will be screened on the basis of their overall Grade 13 average (i.e., six Grade 13 credits or equivalent). Preference will be given to candidates who have obtained a minimum overall average of 70% (i.e., six Grade 13 credits or equivalent, and with a grade of 70% or higher in Grade 13 English). A minimum keyboarding skill of 30 wpm is required. Applicants are required to write tests on current events, word usage, and spelling. Applicants may be interviewed except as noted below. The minimum Ryerson average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum.

OACs may be subsituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the acceptable OAC English. Applicants who live more than 500 km from Toronto and therefore find it difficult to attend an interview may submit a 500-word essay (two copies) outlining why they want to study journalism.

Note: The Ryerson School of Journalism offers a two-year program for students who hold bachelor's degrees from accredited English-language universities. For details contact the Office of Admissions.

• Laboratory Science – Degree
Four years leading to a Bachelor of Technology (Laboratory Science). Students may apply to graduate with a Diploma in Laboratory Science after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 credits in chemistry, biology, and functions and relations. English (Grade 12, advanced), 60% or higher is also required. Applicants lacking one of the above Grade 13/OAC prerequisites may be considered on an individual basis. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects as noted above. One of calculus or algebra and geometry OAC will be the mathematics requirement.

• Landscape Architectural Technology – Diploma
Three years leading to a Diploma in Landscape Architectural Technology.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 English, and one of chemistry, biology, or geography, and Grade 12 advanced level mathematics with a minimum of 60% in each required course. Qualified applicants are required to submit a written statement of their aptitudes and interests with samples of any creative pursuits and may be asked to an interview if travelling distance permits. It is suggested to mature applicants who have had mathematics several years previously that they take a refresher course in Grade 12 advanced level mathematics. The minimum Ryerson average for admission is 60% in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English.

• Mechanical Engineering – Degree
Four years leading to a Bachelor of Technology (Mechanical Engineering). Students may apply to graduate with a diploma in Mechanical Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including English, functions and relations, calculus, physics, and chemistry. Applicants lacking one of the above Grade 13/OAC prerequisites may be considered on an individual basis. Minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects as noted above. Calculus and algebra and geometry OACs will be the acceptable mathematics courses. English/*anglais* OAC 1 will be the preferred OAC English.

• Nursing – Degree
Four years leading to a Bachelor of Applied Arts (Nursing). Offered on a full-time basis only.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13/OAC credits in English and chemistry, and one of biology or physics. An average of 60% or higher is required in these three subjects. Mathematics (Grade 11 or higher) advanced level, 60% or higher is also required. Mature applicants must have Grade 13/OAC credits (or equivalent) in English, chemistry, and one of biology or physics with an average of 60% or higher in these three subjects. Mathematics (Grade 11 or higher) advanced level, 60% or higher is also required. The minimum Ryerson overall average for admission is 60% in six Grade 13 or OAC credits. Subject to competition, candidates may be required to present averages above the minimum.

OACs may be subsituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English. Students must submit information pertaining to their state of health and immunization prior to registering. Students are required to obtain an Ontario Heart and Stroke Foundation of Ontario basic cardiac life support certificate prior to registration and are responsible for maintaining this certification throughout the program.

The Ryerson School of Nursing also offers a two-year degree program, full- or part-time, for registered nurses with a diploma in nursing. Admission requirements: Current registration by the College of Nurses or eligibility for registration in Ontario. Graduation from a diploma program in nursing with acceptable academic performance. Evidence of recent nursing practice experience from those not applying immediately following completion of a diploma program.

Candidates must also submit:
1. Officially certified transcripts from all nursing and other postsecondary level studies, indicating specific courses and grades.
2. Course outlines and descriptions to validate acceptable prerequisites of one full year of psychology, sociology, and humanities (e.g., English, history, philosophy). Graduates of Ryerson's diploma program are not required to do this.
3. A detailed résumé of previous work and academic experience (including continuing education) and professional activities.
4. A letter outlining educational goals and indicating the choice of clinical focus within the program (adult, child, and family or mental health nursing) and how that clinical choice relates to the applicant.
5. Photocopy of current Ontario Certificate of Competence or proof of eligibility for the same.

Certificate in Critical Care Nursing
Admission requirements: minimum one year of medical/surgical nursing experience within the past two years, and College of Nurses certificate of competence. Priority is

given to students from participating hospitals.

• Photographic Arts – Degree
Four years leading to a Bachelor of Applied Arts (Photographic Arts).

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including a Grade 13 credit in English, minimum 60% or higher. Aptitudes and interests of applicants will be carefully assessed. Applicants should be prepared to appear for an interview where travelling distance permits and make available samples of work appropriate to the option they intend to enter. Applicants should be prepared to demonstrate their proficiency in communications skills and must state their intended option at the time of application, *i.e.*, film studies option (PHAF), media arts option (PHAM), or still photography studies option (PHAS). The minimum Ryerson average for admission is 60% in six Grade 13 or OAC credits. Subject to competition, candidates may be required to present averages above the minimum. The admissions interview, portfolio, and academic performance will be assessed in the admissions process.

OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English. Graduates of university programs will be considered but will be required to take the full four-year program. This program cannot be taken on a part-time, special, or auditor basis.

• Public Administration – Certificate, Advanced Certificate, and Bachelor of Applied Arts (Public Administration) Degree
Three levels of study (offered on a part-time basis through various teaching modes). Students may apply to graduate with a certificate after the completion of level 1 and an advanced certificate after the completion of level 2. Level 3 leads to a Bachelor of Applied Arts (Public Administration) degree.

Admission requirements
An OSSHGD or OSSD. OACs may be substituted for/combined with Grade 13 subjects. Students who do not possess the OSSHGD or OSSD may be eligible for admission under Ryerson's mature student guidelines. These apply to individuals who:
(a) are 21 years of age by December 31 of the year in which they will begin studies.
(b) have been away from formal education for at least two years.
(c) are Canadian citizens or landed immigrants or are sponsored by a Canadian government agency.
(d) can present evidence of ability to cope with the program.

• Radio and Television Arts – Degree
Three years leading to a Bachelor of Applied Arts (Radio and Television Arts).

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including a Grade 13 credit in English (minimum of 70% or higher). Preference will be given to applicants with a 70% or higher average in six Grade 13 subjects. Applicants are required to submit a typewritten statement as noted below. An interview may be part of the admissions process. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. The typewritten statement and academic performance will be used in the admissions process.

OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the acceptable OAC English.

Applicants are required to submit with their application two copies of a typewritten statement (minimum 500 words) explaining their reasons for choosing a career in radio and/or television. This statement should outline interests and/or experiences (academic or extracurricular), which may demonstrate a capacity to succeed in the broadcasting field. These could include activities that indicate leadership abilities and/or self-motivation, an interest in society, etc., or actual work experience in the field. As all assignments are required to be typewritten, students must be able to type. Graduates of university programs will be considered, but will be required to take the full three-year program. Unfortunately, students wishing to study on a part-time, special, or auditor basis cannot be admitted into this program.

• Social Work – Degree
Four years leading to a Bachelor of Applied Arts (Social Work). Offered on a full- or part-time study basis. Students may apply to graduate with a Diploma in Social Work after successful completion of the first three years of the program. The four-year degree program is accredited by the Canadian Association of Schools of Social Work.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including a Grade 13 credit in English (minimum of 60% or higher). Overall academic performance/average (six Grade 13/OAC credits including English) will determine who participates in the admission selection test. Due to the nature of this program, it is essential that applicants be a minimum of 18 years of age as of June 1 of the year in which they wish to commence study. University/college applicants will be selected on the basis of their secondary school/university/college performance and the admission selection test. The minimum Ryerson overall average for admission is 60% in six Grade 13 or OAC credits. Subject to competition, candidates may be required to present averages above the minimum.

OACs may be substituted for/combined with Grade 13 subjects. English/*anglais* OAC 1 will be the preferred OAC English. Students will be required to write an admission test on campus (or at another location if applicant lives in Northern Ontario or out of province). The admission test is designed to elicit applicants' interests and aptitudes for a career in social work.

• Survey Engineering – Degree
Four years leading to a Bachelor of Technology (Survey Engineering). Students are also required to accumulate the equivalent of one year of work experience, through summer and/or full-time work, in surveying or related fields (can be completed before, during, or after academic studies). Students may apply to graduate with a diploma in Survey Engineering Technology after successful completion of the first three years of the program.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits, including Grade 13 credits in physics, functions and relations, and calculus. English (Grade 12, advanced) with a final result of 60% or higher is also required. Applicants lacking one of the above Grade 13/OAC credits may be considered on an individual basis. The minimum Ryerson overall average for admission is 60% or higher in six Grade 13/OAC credits. Subject to competition, preference may be given to candidates with averages above the minimum.

OACs may be subtituted for/combined with Grade 13 subjects as noted above. Calculus and algebra and geometry OACs will be the acceptable mathematics courses.

• Theatre (Dance, Technical/Production, Acting) – Diploma
Acting – three years; Dance – three years; Technical/Production – three years.

Admission requirements
An OSSGD or OSSD. All theatre programs require that candidates be a minimum of 17 years of age, except for the dance program where the minimum age is 16. Female dance applicants must offer proof of satisfactory ballet training – a minimum of five years training, *i.e.*, Elementary RAD standard or its equivalent. Male applicants who have not had any classical training must demonstrate a degree of physical fitness ability.

All successful applicants must submit a medical certificate certifying their fitness for all physical activities. Both personal and theatrical references (if possible) are required. Applicants will be expected to appear for an entrance audition and/or interview, for which there is a fee of $15. Full information regarding auditions and interviews will be forwarded to the applicant upon receipt of application.

• Urban and Regional Planning – Degree
Four years leading to a Bachelor of Applied Arts (Urban and Regional Planning). Accredited by the Canadian Institute of Planners and the Ontario Professional Planners Institute.

Admission requirements
OSSHGD or OSSD with six Grade 13/OAC credits. Students are advised to select from the Grade 13 level English, modern languages, economics, family studies, mathematics, or geography. Qualified applicants will be interviewed where travelling distance permits. Applicants must demonstrate a genuine interest in urban and regional issues. The minimum Ryerson overall average for admission is 60% in six Grade 13/OAC credits. Subject to competition, candidates may be required to present averages above the minimum. The interview and academic standing will be used in the admission process.

OACs may be substituted for/combined with Grade 13 subjects. One OAC mathematics course is recommended. English OAC 1 will be the recommended OAC English.

• Continuing Education
Continuing Education at Ryerson gives part-time adult learners a wide variety of program options geared primarily to their career-oriented needs. Credit and non-credit courses spanning over 450 subject areas are offered each year. Many of these courses can be applied towards one of Continuing Education's certificate programs, and many may be credited toward Ryerson's day school diploma and degree programs. Depending on their interests, students may choose from credit and professional development courses and seminars, courses leading to professional certification, over 45 certificate programs, and part-time degree studies. Studies are offered in applied arts, arts, business, community services, and technology. Special programs and courses include wide-ranging selections such as in-house and off-campus programs, seniors' studies, and Summer at Ryerson.

Academic advisers are available at specific times during registration to assist part-time adult learners in selecting appropriate courses.

Although many courses require an academic background of Grade 12 or its equivalent, many students are granted admission on the basis of their experience in business or industry.

Contact the Continuing Education Division, Ryerson Polytechnical Institute, 350 Victoria Street, Toronto, Ontario M5B 2K3, or telephone the Information Centre at (416) 979-5036.

Open College, the educational service of radio station CJRT-FM 91.1, provides a unique opportunity for people within a 160-kilometre radius of Toronto to take degree credit courses at home by listening to the radio or cassette tapes. No educational prerequisites are required to participate in this program. For further information, contact Open College, 297 Victoria Street, Toronto, Ontario M5B 1W1, telephone (416) 595-0485.

Financial Assistance
Students in financial need may apply for assistance from a variety of sources. In addition to government assistance in the form of loans and grants to full- and part-time students, institutional bursaries are available to students registered in diploma or degree programs.

For further information concerning government assistance see the introductory section on financial assistance and check with Ryerson's Financial Aid and Awards Office. The Financial Aid and Awards Officer will also have details on bursaries and scholarships offered by the institution.

At Ryerson, scholarships are awarded on the basis of academic excellence. The awards are generally granted automatically to the recipients for their performance during the previous academic year.

Bursaries are awarded to students with satisfactory academic performance and a demonstrated financial need. To be eligible, a student must be a daytime student at Ryerson, have achieved and maintained satisfactory academic standing, and demonstrated real financial need.

Residence Accommodation

O'Keefe House
Ryerson has one residence (O'Keefe House), which accommodates 36 men. There are, however, several other residences located within easy walking distance of Ryerson. A 552-bed co-ed residence is planned for completion by fall 1991. Further information on housing is available from Ryerson's Housing Registry.

Neill-Wycik College
Neill-Wycik is a 22-storey, co-educational, co-operative residence owned and operated by the student residents. Located one block from the main Ryerson campus, the residence provides accommodation for approximately 700 students.

Housing Registry
The Ryerson Housing Registry lists a variety of off-campus accommodations, along with rates, addresses, and telephone numbers. Most of these listings are posted between mid-July and September, when a variety of support services are available at Ryerson to make the search easier. A variety of publications provide helpful advice on looking for accomodations or roommates. Further information and cost guidelines are available by telephoning (416) 979-5043.

How to Apply to Ryerson
If you are planning to apply to Ryerson, you must do so through the Ontario Universities' Application Centre unless you are a current or former Ryerson Student (including continuing education students), seeking special student status, or applying to a part-time degree/diploma program. Applicants who fall into one of these categories apply directly to Ryerson on a Ryerson application form.

Ontario high school students currently in their senior year use the OUAC 101 form available in the fall from their guidance office. International students (overseas applicants) use the OUAC 105F form available from the Ryerson Office of Admissions/Liaison, the registrar's office of any Ontario university, or from the OUAC. Application procedures are detailed on the form. The address for the Ontario Universities' Application Centre (OUAC) is Box 1328, Guelph, Ontario, Canada N1H 7P4.

Tuition Fees
Please note that the fee structure for the academic year at Ryerson has been restructured. The fees as included here are for the 1988-89 academic year only; fees for the 1990-91 year are not yet available. Please contact the Ryerson Student Fees Department at (416) 979-5015.

The total fee for full-time students who are Canadian citizens or landed immigrants was $1 413 for the fall and winter terms, and $695.50 for the spring term. The total fee for full-time international students was $5 492 for the fall and winter terms, and $2 735.50 for the spring term.

Students whose total fees for the academic year (fall and winter terms) amount to more than $844.20 may make arrangements to pay their fees in two instalments but will incur a 1.5% interest charge per month on the outstanding balance. Payment of the balance due is required by the day before the first day of classes in January.

For fee schedules for part-time students, special departmental charges, and cost of supplies for individual programs, please consult the Ryerson day school calendar.

Further Information
For further information write to
Information Centre
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3
Telephone (416) 979-5036

Inquiries regarding scholarships, bursaries, student awards, and housing should be addressed to
Student Services Department
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3

University of Toronto

Toronto

President: Dr. G.E. Connell

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	37 055	5 272
Part-time	15 607	1 931

Faculties, Schools, Centres, and Institutes

Faculty of Applied Science and Engineering
School of Architecture and Landscape Architecture
Faculty of Arts and Science
Faculty of Dentistry
Faculty of Education
Faculty of Forestry
Faculty of Law
Faculty of Library and Information Science
Faculty of Management
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Pharmacy
Faculty of Social Work
Royal Conservatory of Music
School of Graduate Studies
School of Physical and Health Education
School of Continuing Education
Banting Institute
Banting and Best Diabetes Centre
Best Institute
Centre for Building Science
Centre for Comparative Literature
Centre of Criminology
Centre for Industrial Relations
Centre for International Studies
Centre for the Study of Materials
Centre for Medieval Studies
Centre for Nuclear Engineering
Centre for Reformation and Renaissance Studies
Centre for Religious Studies
Centre for Research in Librarianship
Centre for Russian and East European Studies
Centre for South Asian Studies
Centre for Urban and Community Studies
Computer Systems Research Institute
Engineering and Management Centre
Graduate Centre for the Study of Drama
Information Technology Research Centre
Institute for Aerospace Studies
Institute of Biomedical Engineering
Institute of Child Study
Institute for Environmental Studies
Institute for History and Philosophy of Science and Technology
Institute for Hydrogen and Electrochemical Studies
Institute of Immunology
Institute of Medical Science
Institute for Policy Analysis
Institute for Space and Terrestrial Science
Joint Centre on Modern East Asia
Manufacturing Research Corporation of Ontario
Ontario Centre for Materials Research
Ontario Institute for Studies in Education
Ontario Laser and Lightwave Research Centre
Pontifical Institute for Medieval Studies

Arts and Science Colleges

Erindale Campus
Innis College
New College
St. Michael's College
Scarborough Campus
Trinity College
University College
Victoria College
Woodsworth College

General Admission Requirements

Entrance to the first year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing based upon:
a) completion of six appropriate OACs.
b) eligibility to receive the OSSD.
c) a complete academic report for courses taken in the senior division of secondary school.

Secondary school applicants receive a Student Profile to complete and return. This questionnaire enables students to supplement their academic results so that the university may make a better assessment of their academic and personal strengths.

Students should carefully consider what aspects of their projected university work will entail prerequisite studies. Most faculties regard certain OACs as necessary preparation; these are listed under the entry for each division.

A full description of these admission requirements is contained in the admission handbook, *A Great Tradition.* Applicants to programs in business, education, library science, social work, and child study must hold a bachelor's degree.

Any change in entrance requirements for September 1990 will be communicated to high schools in February or March 1989.

Bachelor of Arts, Bachelor of Science, Bachelor of Commerce

Admission requirements:

Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in mathematics or a language other than English; and four additional credits; however, no more than two OACs in any one subject will be accepted.

During the transition from OSSHGD to the OSSD, the university will accept a combination of Grade 13 and OAC credits.

Students are advised to complete the secondary school program at a rate consistent with their interests and abilities. The length of time taken to complete the first two requirements above will not be considered in the selection process.

The University of Toronto is not able to admit all qualified candidates and, therefore, the completion of the OSSD and six OACs will not guarantee admission. The university will continue to select students by taking into consideration a wide range of criteria including Grade 13 and/or OAC marks, distribution of subjects taken, performance in subjects relevant to the academic program selected, results in senior division (Grades 11 and 12) prerequisite courses, and supplementary information obtained through the Student Profile program.

Students who are not eligible for an OSSD may appeal to receive consideration for admission. The appeal must provide evidence that:
a) a minimum of 30 credits, at least 14 of these in the senior division, have been completed, and
b) a minimum of six acceptable OACs have been completed, and
c) the academic program presented has the support and approval of the secondary school principal.

Note 1: Applicants whose first language is not English must fulfil the following requirements:

Candidates whose first language is not English and who have studied in an English-language school system* for two years or less will be required to present an acceptable score on one of the following tests of English facility: Test of English as a Foreign Language (TOEFL) – minimum score of 580; or Michigan English Language Assessment Battery (MELAB) – minimum score of 90; or University of Toronto Certificate of Proficiency in English Test (C.O.P.E. Test) – minimum score of 6, with no zero in any skill area and a score of no less than 2 in writing.

Note re OAC English 1: The faculties of Arts and Science, and Applied Science and Engineering will allow candidates whose first language is not English and who have studied in an English-language school system* for two years or less to be exempted from presenting OAC English 1. All other faculties that have OAC English 1 as a prerequisite require candidates to present OAC English 1 in addition to an acceptable test of English facility.

Note: It is the responsibility of the applicant to ensure that he or she is taking one of the acceptable tests. We strongly urge applicants to write one of the tests as early as possible because test results take four to six weeks to reach our office.

Bachelor of Arts, Bachelor of Science

Three years.

Fifteen courses over the three-year period. Students are required to complete a major

*An English-language school system must be located in a country where the first (native) language is English.

program consisting of at least five and not more than seven courses in one discipline or study area. In addition, three other courses of the 15 must be in disciplines other than those of the major program. Disciplines with major programs are listed under specific subject areas.

Bachelor of Arts, Bachelor of Science
Four years.
Twenty courses over the four-year period. Students are required to complete *one* of the following:
1) A specialist program consisting of at least nine and not more than 13 courses in one discipline or study area.
2) A combined specialist program consisting of at least 14 and not more than 16 courses in two or more disciplines or study areas.
3) Two major programs, each of which consists of at least five and not more than seven courses in one discipline or study area.

In addition, three courses of the 20 must be in disciplines other than those of the specialist or combined specialist disciplines. Disciplines and study areas with specialist and/or combined specialist programs are listed under specific subject areas.

Bachelor of Arts/Bachelor of Science
Co-op programs.

Four undergraduate arts and science co-operative programs, combining university study with work terms in business and industry, are available at the Scarborough Campus. The programs, which take five years to complete, are administration, arts administration, computer science and physics, and international development studies. Degree earned: B.A. or B.Sc. with specialist certification.

Limited Enrolment
Enrolment in most programs in professional divisions and in some arts and science programs is limited. Most of these programs have special entrance requirements in addition to OAC requirements *(e.g.,* entrance audition, art portfolio, special questionnaires, etc.). The university cannot guarantee acceptance of all qualified applicants to limited enrolment programs; however, applicants will be considered for alternate program and faculty choices where possible.

A minimum of 70% in six appropriate OACs is required for general admission consideration to the university. However, many divisions require averages considerably higher than the minimum. Some divisions, in their selection process, make use of non-academic criteria *(i.e.,* architecture and landscape architecture, music, physical and health education) and, therefore, occasionally may offer admission to a student who has less than 70%.

Application for Admission
Candidates currently in their graduating year in an Ontario secondary school should apply through their high school using the general application form. Applications received from such candidates by the date announced on the application form will be given early consideration. All other candidates should write to the Office of Admissions, giving details of their previous academic work.

University of Toronto calendars are sent to all Ontario secondary schools and Canadian universities. An admission handbook is available upon request from
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3

Faculty of Arts and Science

Basic Medical Sciences

• Bachelor of Science

Three/four years
Available in: biochemistry, biochemistry and chemistry, human biology, immunology, microbiology, molecular genetics and molecular biology, nutritional sciences, pharmacology, physiology, toxicology.

Admission requirements
See *General Admissions Requirements,* "Bachelor of Arts/Bachelor of Science".

Humanities

• Bachelor of Arts

Three/four years
Available in: American studies, ancient Near East studies, ancient Syria-Palestine, art and art history, Assyriology, Canadian literature and language, Celtic studies, Chinese language and literature, Chinese studies, Christian philosophy, Christianity and culture, cinema studies, classical civilization, classics, Czech and Slovak studies, drama, East Asian studies, English, Estonian, fine art (history of art, studio art), French language and linguistics, French language and literature, French-language literature and translation, German language and literature, German-language literature and translation, Greek, Greek and Roman history, Greek studies (ancient or modern), Hellenistic Near Eastern studies, history, history and philosophy of science, history of ideas, humanities, humanities and psychoanalytic thought, Hungarian studies, Islamic studies and religious studies, Italian, Japanese language and literature, Japanese studies, Jewish studies, Korean studies, Latin, Latin American studies, linguistics, literary studies, logic, mediaeval and modern Hebrew, mediaeval studies, Middle East and Islamic studies, modern Hebrew language and literature, modern languages and literatures, music, myth and religion, Near Eastern studies and religious studies, philosophy, philosophy applied to life sciences, Polish language and literature, Portuguese, religious studies, Renaissance studies, Roman studies, Russian and East European studies, Russian language and literature, semiotics, Slavic languages, Slavic languages and literatures, South Asian studies, Spanish, Ukrainian language and literature, Victorian studies.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts/Bachelor of Science".

Life Sciences

• Bachelor of Science

Three/four years
Available in: animal behaviour, biology, botany, cognitive science, molecular biology of plants, neurosciences, palaeontology, plant pathology, plant population biology and evolution, psychology, zoology.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts/Bachelor of Science".

Physical Sciences

• Bachelor of Science

Three/four years
Available in: actuarial science, applied mathematics, astronomy, astronomy and physics, biogeography, chemical physics, chemistry, cognitive science and artificial intelligence, computer science, computer science and physics, earth resources, geology, materials science, mathematical sciences, mathematical statistics, mathematics, physics, statistics, survey science, terrain and environmental earth sciences.

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts/Bachelor of Science".

Social Sciences

• Bachelor of Arts

Three/four years
Available in: African studies, anthropology (archaeology, linguistic, social/cultural), Canadian studies, commerce, commerce and East Asian studies, commerce and finance, crime and deviance, criminology, development studies, economics, economic history, Egyptology, environmental and resource management, environmental sciences, environmental studies, ethics society and law, exceptionality in human learning, geography, historical and cultural geography, history and philosophy of science, history of science and technology, international relations, labour-management relations, labour studies, mathematical linguistics, medicine morality and the law, Native studies, peace and conflict studies, political science, population and society, science and society, science and

technology studies, social anthropology and sociology, sociology, urban and economic geography, urban studies, women's studies.

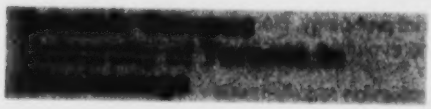
• Bachelor of Science

Three/four years
Available in: computer science for data management, economics and quantitative methods, environmental and resource management , environmental sciences.

• Bachelor of Commerce

Four years
Available in: commerce and finance (not available on Scarborough campus)

Admission Requirements
See *General Admission Requirements*, "Bachelor of Arts/Bachelor of Science/Bachelor of Commerce".



Principal: Desmond Morton, B.A., M.A., Ph.D., F.R.S.C.

Two hundred and forty-three furnished townhouses provide 813 students with inexpensive university campus accommodation.

General Admission Requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science, Bachelor of Commerce."

Programs Offered
Erindale offers courses leading to three- and four-year Bachelor of Arts or Bachelor of Science degrees and a four-year Bachelor of Commerce degree. Students electing to follow a three-year program will take a major concentration in a discipline or an approved area of study, while those choosing a four-year program will specialize in a discipline or complete two major areas of concentration. Students will also select, at some point in their program, at least one course from each of the academic divisions of humanities, physical and life sciences, and social sciences.

Humanities: classics, drama, English, fine art, French, German, history, Italian, linguistics, philosophy, religious studies, and Spanish. Physical and life sciences: astronomy, biology (botany, microbiology, zoology), chemistry, computer science, geology, mathematics, physics, psychology, statistics, and survey science. Social sciences: anthropology, commerce, economics, geography, political science, and sociology.

Students may choose from a broad range of specialist and major programs, including a number of unique programs sponsored by Erindale. The following listing outlines these special programs.

Art and art history provides initial training for careers in art galleries and museums, for advanced study of the history of art and art conservation, for freelance art careers, and for the teaching of art in Ontario schools. Students earn both a University of Toronto degree and a diploma of art and art history from Sheridan College of Applied Arts and Technology. Please note that applications must be submitted to both the University of Toronto and Sheridan College.

Survey science is the science of measuring and representing geometrical and physical features of the environment. The program at Erindale includes subjects such as land surveying, geodesy, photogrammetry, remote sensing, cartography, real property law, and computer programming.

The four-year specialist program, which is the only Ontario program fully approved by the Association of Ontario Land Surveyors, leads to the B.Sc. degree. Upon graduation, a student may apprentice with a surveyor for two years and qualify for the Ontario Land Surveyor (OLS) designation. Algebra and geometry, calculus, English, and physics are mandatory for entry into survey science.

Exceptionality in human learning is a three-year or four-year program leading to careers in special education, counselling, and advanced study in psychology. Focusing on the gifted and handicapped, students will study primarily psychology and augment their program with electives such as children's literature, philosophy of education, and medicine, morality, and the law. This program is preferred by the university's Faculty of Education.

In addition to art and art history and exceptionality in human learning, programs such as the joint psychology and biology program in animal behaviour and the major program in crime and deviance offer subject emphases not available elsewhere in the university.

Approved Areas of Study
The following interdisciplinary approved areas of study are available at Erindale Campus: Canadian studies, crime and deviance, earth resources, environmental science, exceptionality in human learning, Latin American studies, logic, material culture, Native studies, population and society, and urban studies.

February Admission
Students qualified for admission to the faculty of Arts and Science, especially those intending to graduate in January 1990, are invited to apply to the February admission program offered at the Erindale Campus. Students will be eligible to take a maximum of 2 credits in a 13-week session that runs until May 1990. Appropriate couses have been selected for the program, from English, philosophy, psychology, sociology, commerce, mathematics, and computer science (an introduction to microcomputers). The program dates have been timed to provide for a smooth transition to summer courses or to allow students to compete for summer employment. With appropriate course selection in the February and summer sessions, qualified students may complete their first-year requirements by August 1990. Admission requirements are the same as for September or summer programs. Some residence spaces and scholarships will be available. Applicants requiring financial assistance should submit their OSAP application by mid-November 1989.

Library
Erindale's undergraduate library holds over 220 000 books, an array of 2 000 current journals and periodicals, and 25 microcomputers for students, and offers an efficient book delivery system that allows students access to the six million volumes in the university's library collection.

Scholarships, Awards, and Financial Aid
Special scholarships are available at the Erindale Campus, in addition to the National Scholarships and the U of T General Admission Scholarships open to all University of Toronto students. Over 40 Erindale awards of $1 000 to $1 500 are available each year. Some, including the Chancellor's Scholarships ($1 500), and the Dean's Scholarships ($1 200), are awarded annually and are renewable for three more years, provided an "A" standing is maintained.

Further Information

Campus visits and general information
Mr. Doug Leeies
Telephone (416) 828-5217

Academic counselling and help with program selection
Dr. Les McCormick or
Ms. Mary Alice Beyer-Gammon
Telephone (416) 828-5244 or 828-5331

Scholarships and financial aid
Mrs. Valerie Rowles
Telephone (416) 828-5234

Principal: Paul Thompson, M.A., Ph.D.

General Admission Requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

Programs Offered
Scarborough offers courses leading to three- and four-year Bachelor of Arts and Bachelor of Science degrees. Commerce students work toward a Bachelor of Arts degree. Students who wish to earn a four-year degree will complete either a specialist program in one discipline or two major

programs in different disciplines. Those who wish to earn a three-year degree will follow a major program of study or a college program. Programs are flexible enough that students can also take courses from outside their specialist or major areas of interest.

Humanities – arts, classics, drama, English, fine art, French, German, history, humanities, Italian, linguistics, music, philosophy, Spanish. *Life Sciences* – biology, cell and molecular biology, ecology, and environmental biology, psychology. *Physical Sciences* – biochemistry, chemistry, computer science, geology, mathematics, physics, statistics. *Social Sciences* – anthropology, commerce, economics, geography, political science, sociology.

Co-operative Programs: The following are the only co-operative programs available at the University of Toronto: administration, arts administration, international development studies, and computer science and physics. Planning for a fifth program, in publishing, is underway. These programs all combine university study with work terms in business, industry, government and the arts, or development projects. Students in the *co-op program in administration* take courses in commerce, economics, history, political science, sociology, psychology, and statistics for an integrated view of administration, both public and private. Four work terms provide practical experience in these areas. *Arts administration* students take a combination of business and public administration courses as well as courses in at least two arts fields: drama, fine art studio, fine art history, or music. Two work terms are spent with museums, theatres, galleries, and other such arts organizations. The *co-op program in international development* integrates courses in political, economic, and social development studies with courses in physical resource management. An eight- to twelve-month work term placement in a Third World country gives students the opportunity to apply what they have learned in their academic program.

The co-op program in computer science and physics combines academic studies during the regular academic year with work terms (usually two) in the summer. It prepares students for permanent employment in areas concerned with research and technology, as well as for graduate studies in computer science. Other unique programs available at the Scarborough campus:

Neurosciences, which encompasses several disciplines: anatomy, physiology, biochemistry, psychology, and pharmacology. Its goal is understanding the behavioural, biological, and biochemical processes in the brain and nervous system.

Terrain and Environmental Earth Sciences (TEES): This multidisciplinary program recognizes the growing concern for our environment. Studies in geology are strongly supported by chemical and other physical sciences.

Interdisciplinary Programs
Programs combining the resources of different disciplines can provide a focus for the study of various themes and topics. Available at Scarborough are: Canadian studies, cognitive science, development studies, history of ideas, humanities, medieval civilization, myth and religion, neurosciences, women's studies and society, and values and medicine.

Resources
The Bladen Library at Scarborough College has over 200 000 books on open shelves, as well as thousands of maps and periodicals. In its media centre are recordings and fine art slides. Individual study desks are located throughout the library. Online access is available to the holdings of other libraries. Other resources include counselling services and a career centre, computer centre, writing lab, science lab, greenhouse, astronomy dome, and language studies centre.

Residences
Campus acommodation is provided for 536 students in furnished, self-contained townhouses near the main college buildings. Each townhouse accommodates four to six students in single and double rooms. Ten spaces are designed for students with special needs.

Off-Campus Housing
There are rooms, apartments, and shared accommodations available in the Scarborough area. Students who wish to rent apartments should start their search early.

Student Awards
Scarborough College offers over 50 entrance awards in addition to the general University of Toronto scholarships. The most prestigious of these is the Plumptre Award, currently valued at $2 000.

Further Information

For further information, or arrangements to visit the Scarborough campus, please write or telephone
Ms. Jackie Kemp
Counselling Services Office
Scarborough Campus
University of Toronto
1265 Military Trail
Scarborough, Ontario M1C 1A4
Telephone (416) 284-3292

For further information about residence, contact
Ms. Penelope Laycock
Manager, Student Residences and Conference Services
Telephone (416) 284-3174

For further information about co-op programs, contact
Office of Co-operative Programs
Telephone (416) 284-3117

Education/Physical Education/ Recreation

• Bachelor of Physical and Health Education
The School of Physical and Health Education offers a four-year honours degree program, comprising 20 academic credits plus 11 activity courses, and four supervised leadership experiences. The program emphasizes physical activity, health, and their interrelationship. The graduate program in the exercise sciences is offered through the Graduate Department of Community Health.

Admission requirements
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including one credit in English I/ *anglais*; one credit in biology; one credit in algebra and geometry or calculus or finite mathematics; one credit in chemistry or physics; one credit in physical and health education*; and one elective credit. Applicants are required to complete a student profile.

Engineering and Applied Sciences

• Bachelor of Applied Science
The Faculty of Applied Science and Engineering offers a four-year program leading to a Bachelor of Applied Science degree. Eight programs are available: chemical engineering and applied chemistry, civil engineering, electrical engineering, engineering science, geo-engineering, industrial engineering, mechanical engineering, metallurgical engineering and materials science. The first year is common to all programs except engineering science. Students are required to select one of the above eight programs upon making application.

In the third year, engineering science students elect one of the following options: aerospace, chemical, computer engineering, electrical, geophysics, computer aided manufacturing, nuclear and thermal power, or physics.

In the third year, geo-engineering students elect one of the following options: mineral exploration, mineral engineering, or geotechnical engineering.

In the third year, metallurgical engineering and materials science students elect one of the following options: metallurgical or materials.

The faculty has a two-term system, with the academic year divided into two terms, each lasting approximately 16 weeks. Most courses are one term in duration, with concentration on six subjects at one time.

*In the event a school does not offer an OAC in physical and health education, the student is exempted from this requirement and should select and additional elective credit.

There is provision for students to elect a slightly higher or lower than normal course load in some terms. Promotional standing is determined at the conclusion of each term.

Each program consists of core courses in relevant areas of science, mathematics, and engineering, plus technical and humanities/social science elective subjects allowing students to specialize in one or more minor fields of interest. The humanities/social science electives provide an opportunity to take courses in the humanities, the social sciences, and other courses related to various aspects of professional practice.

Students may choose a co-operative work-study program, which involves a concentrated 16-month employment period (the Professional Experience Year) between second and third academic years. This program provides engineering experience in a co-operating industry that is closely related to the student's field of specialization. Fourth-year students who intend subsequently to continue to graduate studies may participate in the co-ordinated bachelor/master's program, which normally permits a reduction in the time required for completion of the master's degree.

Requirements for Admission to the Faculty of Applied Science and Engineering:
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus; one credit in chemistry; one credit in physics; and one elective credit; students are strongly encouraged to select a credit in humanities or social sciences for their elective.

English Facility Requirements for Applied Science and Engineering:
Note to students whose first language is not English: (a) Those who have studied for more than two years in an English-language school system* must present OAC English 1/*anglais*. (b) Those who have studied for only two years or less in an English-language school system* must present proof of English facility but may be exempted from presenting OAC English 1 when they present one of the following: a minimum score of 580 on the Test of English as a Foreign Language (TOEFL); or a minimum score of 90 on the Michigan English Language Assessment Battery (MELAB); or a minimum score of 6 with no zero in any skill area and a score of no less than 2 in writing on the University of Toronto Certificate of Proficiency in English Test (C.O.P.E. Test).

*An English-language school system must be located in a country where the first (native) language is English.

• Bachelor of Architecture

Five years

Admission requirements
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus; and three elective credits*.

All applicants are asked to complete a questionnaire and to present a portfolio of their work. Candidates whose first language is not English may be required to present proof of facility in the English language.

• Bachelor of Landscape Architecture

Five years

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including those prescribed. Applicants must include the following OACs: one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus or finite mathematics; and three elective credits*.

It is strongly recommended that prospective applicants to the program include studies in art, biology, geography, and environmental, social, and natural sciences. All applicants are asked to complete a questionnaire and submit a portfolio of their work. Candidates whose first language is not English may be required to present proof of facility in the English language.

• Bachelor of Science in Forestry

Four years
After two years in the undergraduate forestry program, students are required to elect one of the following options: (1) forest science, or (2) wood products science. The areas of interest in forest science are forest biology (including animal and plant ecology, tree physiology, genetics, forest pathology, and entomology) and forest management (including silviculture, timber harvesting and utilization, remote sensing, forest economics, management planning, and business). In wood products science, the areas of interest are the anatomy and physical and chemical properties of wood, wood processing, and uses for structural and chemical engineering.

A work-study program (Professional Experience Year), which involves a 16-month employment period, is made available to selected students between the second and third years. It provides them with a unique opportunity to apply the results of their first two years of university education and to develop a focus for the remaining two years of academic studies. It may also provide an opening for permanent employment upon graduation.

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including one credit in English I/*anglais*; one credit in chemistry; one credit in calculus; one credit in algebra and geometry or finite mathematics; one credit in biology; and one elective credit. OAC physics is strongly recommended.

*Architecture and landscape architecture applicants must select their three OAC electives according to the following guidelines: two humanities credits in addition to English are acceptable; a maximum of two social science credits is acceptable; no additional mathematics credit is acceptable.

Fine and Applied Arts

• Bachelor of Music

Four years
In second-year music, students choose their major field of concentration from one of the following: composition, history and literature, music education, theory.

Academic requirements
Candidates from Ontario secondary schools must present at least five academic credits at the OAC level, not including music or Royal Conservatory of Music certificates. An OAC in English I/*anglais* is required. Candidates whose first language is not English may be required to present proof of facility in the English language. Applicants should contact the Faculty of Music directly, in the fall, to request the faculty's music questionnaire for entrance the following September. Telephone (416) 978-3741.

Musical requirements
a) Major performing medium. All candidates are required to audition. The minimum standard expected is the RCMT Grade 10 (or equivalent) for piano, organ, or harpsichord or Grade 8 in any standard orchestral or band instrument, classical guitar, free bass accordion, historical instruments, or voice. The RCMT syllabi should be consulted for guidance in preparing auditions and for the standard expected.
b) Theory. (1) RCMT (or equivalent) certificates: Grade 2 rudiments and Grade 3 harmony, or
(2) an admission-theory placement test, which covers equivalent material.
c) Additional requirement: interview (at the same time as the audition).
d) Keyboard proficiency. Students whose major performance instrument is not piano will find that a Grade VI (RCMT) certificate will assist them in their studies at the faculty. The Faculty of Music *does not,* however, require proof of certification or an examination in keyboard proficiency.

• Bachelor of Music in Performance

Four years from a four-year high school course.

Academic requirements
Students must be eligible for an OSSD and present at least five academic credits at the advanced level, not including Grade 12 or 13 music or RCMT certificates (or equivalent). Music is highly recommended as a subject but will not be counted in the five credits.

Musical requirements
a) Major performing medium. An entrance audition in performance is required of all applicants. Only those showing special talent will be admitted to the course. Candidates may audition on any standard orchestral or band instrument, recorder, piano, organ, harpsichord, classical guitar, free bass accordion, or voice. Details of the required standard may be obtained from the Admissions Officer of the Faculty of Music.
b) Theory. Same as for Bachelor of Music degree program (see above).
c) Additional requirement: interview (at the same time as the audition).
d) Keyboard proficiency: See Bachelor of Music degree program above.

• Artist and Licentiate Diploma Programs (Faculty of Music)

Three years

Artist diploma: A course to train performers for professional careers.
Licentiate Diploma: A course that combines practical training with instruction in pedagogy to prepare students for careers as private piano teachers.

Academic requirements
Same as for the Bachelor of Music in performance.

Musical requirements
a) Major performing medium. Candidates must pass an audition. Superior performing ability is expected. For the Artist Diploma program, candidates may audition on any standard orchestral or band instrument, recorder, free bass accordion, piano, harpsichord, classical guitar, or voice. The Licentiate Diploma program is available only in piano.
b) Theory. Same as for Bachelor of Music degree program (see above).
c) Additional requirement: interview (at the same time as the audition).

• Bachelor of Science in Art as Applied to Medicine (Medical Illustration)

Three years
An advanced course offered to qualified artists.

Admission requirements
Candidates must present a complete six OACs, including English and biology. OACs in chemistry and art are strongly recommended. Applicants should also have a minimum of two and a half years of formal studio courses in art; this training should follow high school and should emphasize illustration rather than fine art.
Address inquiries to
Director
Department of Art as Applied to Medicine
University of Toronto
256 McCaul Street
Toronto, Ontario M5T 1W5

Health Professions and Medical Sciences

• Bachelor of Science in Nursing

Four years

Admission requirements
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/*anglais*; one credit in chemistry. OACs in biology and mathematics are recommended.

Candidates who are graduates of diploma nursing programs are required to have completed secondary school studies including six OACs, including chemistry. Credit in year 1 nursing courses (Nur 100Y, Nur 102Y, Nur 103B) will be granted to graduates of diploma nursing programs. Examinations for advanced standing in the second-year nursing courses (Nur 200Y and Nur 202Y)will also be offered to these applicants.

A candidate of mature age (21 years of age or older on October 1 of the winter session, or July 15 of the summer session), who has lived in Ontario for a minimum of one year and is normally a resident of Ontario, may request special consideration for admission to the faculty if high standing has been obtained in *pre-university chemistry and English*, offered through Woodsworth College (or equivalent courses), and standing in such other tests as may be required.

Address enquiries to the Admissions Officer, Faculty of Nursing, University of Toronto, 50 St.George Street, Toronto, Ontario M5S 1A1.

• Bachelor of Science in Pharmacy

Four years

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including one credit in English I/*anglais*; one credit in algebra and geometry; one credit in calculus; one credit in chemistry; one credit in physics; and one elective credit.

In addition, all applicants must write the Pharmacy College Admission Test (PCAT), which must be written in February or April. Information on the test is available in high school guidance offices and from
Faculty of Pharmacy
University of Toronto
19 Russell Street
Toronto, Ontario M5S 1A1

Program is not open to international students.

• Bachelor of Science (Occupational Therapy)
Bachelor of Science (Physical Therapy)

Four years

Admission requirements
Applicants must be eligible for the OSSD and present credits in at least six OACs, including:

(Occupational therapy applicants): one credit in English I/*anglais*; one credit in biology or chemistry or physics or algebra or geometry or calculus or finite mathematics; and four elective credits.

(Physical therapy applicants): one credit in English I/*anglais*; one credit in biology; one credit in chemistry; one credit in physics; one credit in algebra and geometry or calculus or finite mathematics; and one elective credit.
Address inquiries to
Office of Admissions
University of Toronto
315 Bloor St. West
Toronto, Ontario M5S 1A3

• Doctor of Dental Surgery
Four years following completion of a minimum of two years' full-time university study at a level beyond secondary school graduation. These years must include courses in biology, chemistry, physics, and organic chemistry (all with lab components) that are acceptable to the faculty. The Canadian Dental Association's Dental Aptitude Test is not a requirement for admission to the DDS program at the University of Toronto.

Inquiries should be addressed to
Admission Office
Faculty of Dentistry
University of Toronto
124 Edward Street
Toronto, Ontario M5G 1G6

• Doctor of Medicine
Four years following completion of:
a) a minimum of two years in a degree program in a Canadian university, after completion of six OACs and the OSSD, and obtaining appropriate credit in the prerequisite subjects*, or
b) a bachelor's degree from a recognized university, and obtaining credit in the prerequisite subjects*.

*All applicants are required to have satisfactorily completed the following courses:
Biology or zoology (with lab): one OAC or an appropriate university-level course.
Physics (with lab): one OAC or an appropriate university-level course.
General chemistry (with lab): a university course of one year's duration. Quantitative or qualitative analysis and physical chemistry are acceptable.
Organic chemistry (with lab): a university course of one year's duration.

All applicants to the medical course must write the New Medical College Admission Test (MCAT) by the fall of the year preceding the proposed year of entry into the medical course. Applications for this test should be submitted not later than one month prior to the date of the test. Information and applications for the New MCAT may be obtained from the Undergraduate Medical Education Office, Faculty of Medicine, or by writing to: New MCAT Registration, American College Testing Programme, P.O. Box 414, Iowa City, Iowa 52243, U.S.A.

Preference is given, in the selection process, to Canadian citizens and permanent residents who reside in Ontario.

Address inquiries to
Amanda Gee
Admissions Officer
Undergraduate Medical Education Office
Faculty of Medicine
University of Toronto
Toronto, Ontario M5S 1A8
Telephone (416) 978-2717

Humanities and Related Courses

• Theology (Toronto School of Theology)
Courses are offered by Emmanuel College (United Church), Knox College (Presbyterian), Regis College (Roman Catholic-Jesuit), St. Augustine's Seminary (Roman Catholic-Diocesan), St. Michael's College (Roman Catholic), and Trinity and Wycliffe Colleges (Anglican). Inquiries should be directed to the head of the college concerned, c/o the University of Toronto, Toronto, Ontario M5S 1A3.

Social Sciences and Related Courses

• Bachelor of Laws
Three years following at least two years (ten academic credits) of postsecondary study beyond obtaining an OSSD (at least five years after obtaining an OSSD).

Address inquiries to
Office of Admissions
Faculty of Law
University of Toronto
Toronto, Ontario M5S 2C5

Special Programs

• Transitional Year Program
The Transitional Year Program (TYP) is a full-time course of studies for students who have the potential and motivation to pursue university education but do not possess the required entrance qualifications. The program covers one academic year from September to May. Each year TYP enrols a limited number of promising students who had either earlier dropped out of high school for social or financial reasons or had received diplomas in courses other than the normal university admission stream and are thus academically unprepared for university.

Priority in admission is given to people who clearly have not had a fair chance to qualify for university entry. The program's Admissions Committee considers socio-economic factors such as family income and parents' education in determining whether there were conditions that may have prevented the individual from staying in school despite academic ability.

Students entering the program should be at least 19 years old and typically have been in the work force for at least one year. Applicants are expected to be able to indicate why the Transitional Year Program would be the only route through which they can achieve admission to university.

Students are enrolled for one academic session (September to May) in a special program whose aims are:
(a) to provide the student with the basic learning and communication skills necessary for university;
(b) to give the student exposure to the organized approaches to ideas and problems that characterize social science and humanistic studies;
(c) to help the student obtain course credit in one university subject as part of the student's future university program.

Students in the program are eligible for awards from the Ontario Student Assistance Program (OSAP).

For further information about the program, please phone (416) 978-6832.

Residence

Undergraduate
If, on their application for admission, students indicate an interest in residence, they will automatically be sent an application for residence accommodation. Further inquiries about available accommodation should be addressed to one of the following officials:

Director of Residence
University College

Dean of Men or Dean of Women
Victoria College

Dean of Men or Dean of Women
Trinity College

Dean of Men, St. Michael's College, or
Dean, St. Joseph's College (Women)
90 Wellesley Street West
Toronto, Ontario M5S 1C5, or

Dean, Loretto College (Women)
70 St. Mary Street
Toronto, Ontario M5S 1J3

Dean of Men or Dean of Women
New College

Residence Co-ordinator
Innis College

Residence Officer
Scarborough College
Room S303-1
1265 Military Trail
Scarborough, Ontario M1C 1A4

Director of Student Affairs
Erindale College
3359 Mississauga Road
Mississauga, Ontario L5L 1C6

Secretary to the Dean (Men's Residence)
Devonshire House

Fees
For 1988-89 the total cost of residence accommodation, including meals, ranged from approximately $4 500 to $5 000 per session (September to May).

For assistance in finding other accommodation, students should contact
University Housing Service
214 College Street
Koffler Student Services Centre
Toronto, Ontario M5T 2Z9

A variety of residence accommodation is offered by the two independent residences listed below. They have no official connection with the university. Inquiries should be made directly to

Campus Co-operative Residence Inc.
395 Huron Street
Toronto, Ontario M5S 2G5

Tartu College
310 Bloor Street West
Toronto, Ontario M5S 1W4

Scholarships and Financial Assistance
Students in financial need may apply for assistance from a variety of sources. Detailed information concerning government assistance is provided in the *Financial Assistance for Students* section of this publication.

The university, its colleges, and its faculties offer scholarships, bursaries, and emergency loans. Information concerning admission scholarships is available in all Ontario secondary school guidance offices. Students who are not enrolled in an Ontario secondary school or who wish information concerning other types of assistance should contact the Office of Student Awards, Koffler Student Services Centre, University of Toronto.

Inquiries and requests for application forms for student awards should be addressed to
Office of Student Awards
Koffler Student Services Centre
214 College Street
University of Toronto
Toronto, Ontario M5T 2Z9
Telephone (416) 978-7950

Tuition Fees 1988-89
Arts and science $282 per course plus college membership and incidental fees

Applied science and engineering ($1 531 plus $341.04 for incidental fees)
Architecture ($1 531 plus $315.54 for incidental fees)
Art as Applied to Medicine ($1 410 plus $225.04 for incidental fees)
Dentistry (1st year), ($1 771 plus $207.95 for incidental fees plus $4 352 instruments fee)
Forestry ($1 410 plus $215.54 for incidental fees)
Landscape architecture ($1 531 plus $315.54 for incidental fees)
Law ($1 410 plus $250.54 for incidental fees)
Medicine (1st year), ($1 794 plus $225.04 microscope fee and incidental fees)
Music ($1 410 plus $200.54 for incidental fees)
Nursing ($1 410 plus $213.04 for incidental fees)
Pharmacy ($1 410 plus $215.54 for incidental fees)
Physical and health education ($1 410 plus $355.54 for incidental fees)
Physical and occupational therapy ($1 410 plus $210.54 for incidental fees)

Fees for new international students
Physical and health education, music, law, arts and science, art as applied to medicine $5 322 plus incidental fees. All other programs $8 675 plus incidental and other fees where applicable.
All fees are approximate and subject to change without notice.

Further Information
Inquiries about admission requirements should be addressed to
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3
Telephone (416) 978-2190

Inquiries about University of Toronto information programs for secondary schools should be addressed to
Secondary School Liaison
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3
Telephone (416) 978-2771

Trent University

Peterborough

President: John O. Stubbs

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	3 491	72
Part-time	1 490	7

General Admission Requirements
To be eligible for admission to Trent University, an applicant is required to achieve standing at a level acceptable to the university in a full Ontario secondary school program. An applicant is required to have the OSSHGD or OSSD, inluding a minimum of six Grade 13 subjects or six OACs; or equivalent qualifications from other provinces or countries. For admission consideration, the minimum overall average required on six Grade 13 subjects or six OACs is 60%. However, because of space limitations, applicants presenting the best qualifications will be given preference.

In the transition period from the OSSHGD to the OSSD, both will normally be given equal credit for admission purposes.

No minimum number of years taken to achieve this standing is specified. Although the length of time taken by an applicant to complete the OSSD will not in itself be a determining factor in the admission decision, applicants who have spent more than five years in secondary school may be required to present a higher level of achievement.

Students planning to attend university are encouraged to achieve as much breadth of academic preparation as possible in the course of their secondary school studies.

As the OAC curriculum guidelines are implemented, the university reserves the right to alter specific subject requirements for various programs. At present, however, with the exception of some language programs, there are no specified subject requirements for admission to arts programs. Applicants to science programs are advised to consult the secondary school requirements of individual disciplines as shown in the "Courses of Study" section of the Trent University calendar.

Students entering the administrative and policy studies program must have completed Grade 12 mathematics at the advanced level or its equivalent with a good standing. It is recommended that applicants have one of Grade 13 algebra, calculus, or functions and relations.

Applicants should refer to the calendar for information about admission and program requirements for the Trent-Queen's teacher education program and the administrative policy studies program.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: biology.

Admission requirements
See *General Admission Requirements.*

Education/Physical Education/ Recreation

• Concurrent Teacher Education
An innovative approach to teacher education that is run co-operatively with Queen's University at Trent, this program enables students to study towards a Bachelor of Arts or Bachelor of Science degree, and to fulfil the requirements of the Bachelor of Education degree at the same time, while practice-teaching in local elementary or secondary schools in each year.

Humanities and Related Courses

• Bachelor of Arts

Three-year general/Four-year honours
Available in: cultural studies, English, French, German, Greek, Latin, philosophy, Spanish.

Admission requirements
See *General Admission Requirements.*

Mathematical and Physical Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: chemistry, mathematics, physics.

Admission requirements
See *General Admission Requirements.*

Computer studies
Computer studies offers the opportunity to study internationally recognized curriculum courses in core computer science along with other supporting courses designed to broaden the scope of an education in computing. The program is structured to provide a three- or four-year, joint-major or joint-honours degree.

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, classical studies*, comparative development studies, computer studies, economics, environmental and resource studies, geography, history*, Native management and economic development, Native studies, politics, psychology, sociology.

Four-year honours
Available in: administrative and policy studies, anthropology, Canadian studies, classical studies*, comparative

*For the purposes of Trent University, these courses fall under the Humanities heading.

development studies, economics, environmental and resource studies, geography, history*, Native management and economic development, Native studies, politics, psychology, sociology.

• Bachelor of Science

Three-year general/four-year honours
Available in: anthropology, economics, environmental and resource studies, geography, psychology.

Admission requirements
See *General Admission Requirements.*

• Bachelor of Administrative Studies
The program in administrative and policy studies is designed to provide students with a grounding in various administrative practices such as accounting, computer science, commercial law, management science, marketing, and statistics. Students are required to develop skills in effective communication and long-range policy making in preparation for broad career areas in government and industry. This is a four-year program leading to the degree of Bachelor of Administrative Studies.

Canadian studies
The Canadian studies program looks critically and analytically at many aspects of Canadian life from a variety of perspectives within traditional disciplines and core courses. In addition to 30 core courses, about 60 support courses are offered in 11 different areas.

Native management and economic development
This program aims to educate managers in the Native community through training in management skills, research, and demonstration projects. It is a co-operative effort of the Department of Native Studies and the Administrative and Policy Studies Program, leading to a two-year diploma, a Bachelor of Admninistrative Studies with an emphasis in Native Management and Economic Development, or an ordinary or honours Bachelor of Arts in Native Studies with an emphasis in Native Management and Economic Development.

Native studies
The Native studies program deals with the problems, culture, languages, and history of Canadian Native peoples in 29 course offerings.

Environmental and resource studies
The environmental and resource studies program considers resource management and environmental problems in a Canadian context. The program offers both B.Sc. and B.A. streams.

* For the purposes of Trent University, these courses fall under the Humanities heading.

Comparative development studies
The comparative development studies program involves the comparative examination of societies and culture undergoing rapid change, and their relationship to the industrialized world.

Cultural studies
Cultural studies examines the interplay between culture and the arts through an analysis of the social conditions that shape creative thought and expression. Over 30 courses are available in several areas: film, criticism, drama, literature, and visual arts.

Women's studies
Women's studies provides an opportunity to pursue an ordinary joint major degree by combining women's studies core and support courses with a joint major in another discipline.

• General Degree
The Special Emphasis Program at the ordinary and honours levels meets the needs of students who choose to take a broad range of subjects rather than major in one or more particular disciplines. Students may undertake independent study in such areas as: archaeology and the ancient world, business studies, Canadian-American relations, child studies, comparative social inequality, development of Western thought, educational studies, freshwater studies, human biology, international studies, international trade and development, legal studies, nineteenth-century studies, quantitative methods, regional development and planning, renaissance and reformation studies, religious studies, social services and native people, studies in Canadian literature and culture, studies in labour relations, studies in political economy, studies in satire, and urban studies.

• French, German, and Spanish Study Abroad
Trent University students may study abroad for one academic year and obtain credits for regular Trent language courses. Courses are taken under the supervision of Canadian faculty and are offered at the following universities: Nantes (France), Freiburg (West Germany), and Granada (Spain). Students can also take courses along with European students for credit and will benefit from all the facilities offered the normal European student – subsidized meals and accommodation, cultural trips, and cheaper transportation. The cost of the whole year abroad, including accommodation, will not normally exceed that of a year in residence at Trent and can be reduced considerably in Freiburg and Nantes by students who wish to earn money during the holidays. These programs are especially recommended for honours candidates. Inquiries should be directed to the chairman of the appropriate department.

• Trent University International Program
The International Program is addressed to prospective university students of all nationalities who wish to enrich their education by studying as members of an integrated group of young men and women drawn from many different countries and regions, by acquiring knowledge and understanding of global and regional problems, and by developing the abilities that will enable them to serve the needs of their people and the international community more effectively.

Students who enrol in the program will have a normal choice of the courses offered at Trent. They must be proficient in more than one language, and those whose mother-tongue is English and who are not already bilingual must study a second language for at least two years. They will also be involved in a *Colloquium on World Affairs* once a week, which will be open to all members of the university. About one-quarter of the students in the program will be Canadians, and these students will be expected to provide a link between those from other countries and the local community.

Interested students should consult the Trent calendar for information on admission requirements.

Residence
About one-third of Trent's students live in residence. Trent houses 1 100 students in the five residential colleges: two in the city of Peterborough and three on the main campus. These residences offer a variety of accommodation, ranging from Victorian mansions to the most modern residence complexes. Most of the rooms (81%) are singles. Normally the university can accommodate about 600 year 1 students in the residential colleges. Non-resident members of the colleges are entitled to full use of college facilities.

Fees 1989-90
(including meals)
Single $4 029
Double $3 813
Townhouse (excludes meals) $2 231

Scholarships and Financial Assistance
The university has a generous program of scholarships and assistance to students entering first or higher years with first-class standing. Students of exceptionally high achievement and promise may be awarded a Champlain Scholarship, which has an annual value equal to the cost of tuition and residence. The university calendar, available in most libraries and guidance offices, provides further details of Trent University's program of scholarships, awards, and bursaries.

Students in financial need may apply for assistance from a variety of sources. Government assistance, available to full- and part-time students, is explained in this publication's introductory section on

financial assistance. Students should also check with the university's Financial Aid Office.

Tuition Fees 1989-90
(including ancillary and student government fees)
Tuition $1 870.75

Further Information
Inquiries are welcome and should be directed to
A.P. Saxby
Registrar
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

Inquiries about student awards should be directed to
Yvonne Del Mastro, Financial Aid Officer
Trent University
Peterborough, Ontario K9J 7B8

University of Waterloo

Waterloo

President: D.T. Wright

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	16 499	1 439
Part-time	6 817	402

Faculties, Schools, and Institutes
Faculty of Arts
Faculty of Engineering
Faculty of Environmental Studies
Faculty of Human Kinetics and Leisure Studies
Faculty of Mathematics
Faculty of Science

Admission Requirements

General (for all programs)
Completion of a secondary school program including at least six Ontario Grade 13/OAC credits leading toward the OSSHGD or OSSD, with a minimum 60% overall average. The university expects to fill the majority of places available to secondary school applicants by using the following criteria:
a) Grade 13 or OAC interim or final standing,
b) Grade 12 final standing,
c) school official's comments,
d) personal information supplied by applicant,
e) references and interviews where required.

The OSSHGD and the OSSD will normally be given equal credit for admission purposes.

The length of time taken by an applicant to complete the secondary school program will not of itself be a determining factor in the admission decision, providing the student has proceeded normally through the program without repeating any courses or credits.

Applicants whose interim standing is not sufficient for admission will be considered on the basis of their final standing, and qualified applicants will be admitted until the remaining places are filled.

Applicants whose native language is not English will be expected to satisfy English-language requirements, and to this end, they are required to write the Test of English as a Foreign Language (TOEFL). This language requirement applies to both regular and co-op applicants. A score of 600 is normally required.

Recommendations for admission
The university has recommended that certain courses be included in the applicants' secondary school program. These courses are not required for admission, but applicants will benefit by having these courses as background for their first year of studies. Where specific requirements are stated, applicants must include these requirements in their secondary school program.

Because many of the programs offered at the university have limited enrolment, the possession of the minimum requirements does not guarantee admission to any of the programs.

Regular and co-operative systems of study
As well as offering a regular program of studies where students are enrolled from September to April, the university offers a co-operative education system in all faculties and within a broad range of academic and professional studies. Students enrolled in the co-operative programs alternate academic terms on-campus with work terms in business, industry, or government. The study and work terms are each four months long. The Department of Co-operative Education and Career Services makes the necessary arrangements for the work terms. Applicants to the co-operative programs must be Canadian citizens or permanent residents.

Education/Physical education/Recreation – concurrent education
French Teaching Specialization

This is a special program of study within the Faculty of Arts applied studies co-op program. Students graduate with an honours French (applied studies) degree from Waterloo, a B.Ed. degree awarded by Brock University, certification to teach French and a second subject at the secondary level, and must satisfy the respective requirements.

Mathematics Teaching Option

The co-operative mathematics teaching option is an integrated program offered jointly by the Faculty of Mathematics at the University of Waterloo and the Faculty of Education at the University of Western Ontario. This program combines an academic program in mathematics, teaching experience in secondary schools, and professional training. The graduate is fully qualified as a secondary school mathematics teacher in Ontario.

Arts programs
The Faculty of Arts operates a term-course system, whereby students' progress toward a degree is measured by term courses successfully completed.

Students may obtain a Bachelor of Arts degree by following a general program with major (successful completion of 30 term courses as specified by the department), a four-year general program with a major (successful completion of 40 term courses as specified by the department), or an honours program (successful completion of 40 to 48 term courses as specified by the department). With the exception of honours accountancy studies and social development studies, which admit students directly

to a major, students may declare a general or honours major following their completion of year 1. Co-operative programs leading to an Honours Bachelor of Arts degree are available in almost all honours arts disciplines.

Students in an honours program may have a minor concentration consisting of 10 term courses successfully completed in a second discipline or multidisciplinary area. Joint honours programs are available. There are no double majors or minors in the general program. Options are available with a general or honours program.

General and honours majors and options available are listed under specific subject areas.

An arts student may also graduate with a general arts degree (non-major) upon completion of 30 term courses as specified by the faculty.

Admission requirements
Students applying for admission to year 1 regular or honours co-op applied studies, or honours co-op accountancy studies are required to present six Grade 13/OAC credits, including English and one other arts-related course. Applicants to year 1 honors co-op accountancy studies must present six Grade 13/OAC credits including English. All first-year Faculty of Arts programs have limited enrolment and, in recent years, most students admitted to arts regular have had averages of 70% or better, while most students admitted to honours co-op applied studies and honours co-op accountancy studies have had averages of 75 to 80% or better. Applicants with lower averages may be admitted on the basis of other indicators. Arts-related courses include English, history, languages, social sciences, and fine and performing arts. Applicants considering majors in accounting should take university-entrance level courses in algebra and calculus. A Grade 13/OAC mathematics course is recommended for applicants considering a social science program. Finite mathematics is appropriate for most social sciences programs; however, calculus is preferred for applicants who wish to major in economics.

First-year program
In year 1, students usually select an exploratory program of 10 to 12 term courses (five or six courses in each term). At the end of year 1 and depending upon performance in year 1 courses, students may proceed to regular general or honours major programs or into departmental co-op programs that are available with honours majors in one of anthropology, applied economics, English, political science, political science (administrative studies option), psychology, or sociology.

Students admitted to arts co-op applied studies select 12 term courses in the first year, six of which are required by applied studies. At the conclusion of year 1, and on the basis of performance in year 1 courses, applied studies co-op students select an honours major in almost any of the disciplines in the humanities, languages, fine and performing arts, or social sciences. Students intending to take the arts administration specialization or the French teaching specialization must complete the first year in applied studies co-op. As well, students admitted to year 1 arts co-op applied studies may choose to proceed into a regular general or honours program or into one of the departmental co-op programs listed above.

Students applying to arts co-op accountancy studies will be admitted to either honours co-operative chartered accountancy studies or honours co-operative management accountancy studies. Students in either co-op accountancy studies program select 12 term courses in year 1 (six in each term) as specified by accounting. Students considering entering the combined honours B.A. in accounting and master's in accounting degree may enrol in any co-op accountancy studies program or other university program that permits completion of the prerequisite university courses.

Science programs
The Faculty of Science operates under the credit system, where student progress is measured in terms of credits completed.

The three-year general science program requires a total of 15 credits. It is not necessary that a student designate a major subject.

The honours programs in science require a minimum of 20 credits with or without a specialization.

Applicants must present six Grade 13/OAC credits, including two science credits from biology, chemistry, and physics; two mathematics credits, one of which must be calculus and the other from algebra and geometry or finite mathematics.

Students planning to major in biology or the earth sciences/geography programs must include university-entrance level chemistry. Those planning to major in any chemistry, biochemistry, optometry, or other earth science programs must include both university-entrance level chemistry and physics. Students planning to major in physics programs must include university-entrance level physics.

Applicants to all science programs should select both university-entrance level chemistry and physics courses. A course requiring writing skills would be an asset. For co-operative applied chemistry and physics, both university-entrance-level finite mathematics *and* algebra and geometry are recommended. For the geophysics option within co-op applied earth sciences, university-entrance-level OAC algebra and geometry is recommended.

Agricultural and Biological Sciences

• Bachelor of Science

Four-year honours
Available in: biology, (biotechnology option), biochemistry, biology and environment and resource studies.

Admission requirements
See *Admission Requirements*, "Science programs".

Engineering and Applied Sciences

• Bachelor of Applied Science
The Bachelor of Applied Science degree is offered through the Faculty of Engineering. Seven honours programs in engineering are available: chemical, civil, computer, electrical, geological, mechanical, and systems design. All programs are offered only in the co-operative system of study. The Bachelor of Applied Science program is four and two-thirds years in length. In the first year, programs are designed to prepare the student for specialized work in advanced years of the seven different programs. The first-year programs are sufficiently similar that a student can apply to transfer into the second year of a different program. In some cases, make-up work is required.

Admission requirements
Students are required to present six Grade 13/OAC credits including OAC algebra and geometry, OAC calculus, chemistry, physics, and English. Finite mathematics and a computer science course are recommended.

In recent years most students admitted have had averages of 75% or better; however, a number of students with lower averages are admitted when other evidence indicates an aptitude and interest in engineering or extensive participation in extra-curricular activities.

Applicants lacking any of the specified courses, but whose overall average is high, should contact the admissions officer no later than December for admission the following September. Applicants will be evaluated and advised on the possible courses of action required to meet our specific requirements.

Fine and Applied Arts

• Bachelor of Arts

Three-year general (with major)
Available in: drama and theatre arts, fine arts (studio, history, film studies options), music.

Four-year general
Available in: drama and theatre arts, fine arts (options in studio, art history).

Four-year honours (regular, applied studies co-op, or applied studies co-op – arts administration specialization).
Available in: drama and theatre arts, fine arts (options in studio, history, film studies), music.

Admission requirements
See *Admission Requirements*, "Arts Programs".

Health Professions and Medical Sciences

• Doctor of Optometry
This is the only English-language optometry program in Canada. Students may apply to enter after a minimum of one year of a science program, although the majority of applicants are accepted after two or more years of university. It is a four-year professional program, and because enrolment is limited to 60 students per year, applications to the first professional year are considered on a competitive basis involving academic and non-academic selection criteria. Graduating students receive a Doctor of Optometry degree (O.D.). The program is accredited by the Council of Education of the American Optometric Association.

• Bachelor of Science

Four-year honours
Honours science (program 2-specialization in biology), pre–health professions option.

Admission requirements
See *Admission Requirements*, "Science programs".

Humanities and Related Courses

• Bachelor of Arts

Three-year general (with major)
Available in: classical studies, English, French, German, Greek, history, Latin, medieval studies, philosophy, religious studies, Russian, Spanish.

Four-year general (with major)
Available in: classical studies, English, French, history, philosophy, religious studies, Spanish.

Four-year honours (regular, applied studies co-op, applied studies co-op – arts administration specialization, applied studies co-op – French teaching specialization)
Available in: classical studies, English, French, German, history, Latin, medieval studies, philosophy, religious studies, Russian, Slavic studies, Spanish.

Admission requirements
See *Admission Requirements*, "Arts programs".

Interdisciplinary Options or Minors
Canadian studies, gerontology, international studies, Latin American studies, legal studies, management studies, Middle East studies, peace and conflict studies, personnel and administrative studies, society, technology and values, studies in the French language, studies in personality and religion, studies in sexuality, marriage and the family, and women's studies are options/minors that may be combined with general and honours programs. The Faculty of Arts also offers a speech communication option. Please consult the university calendar for details.

Admission requirements
See *Admission Requirements*, "General (for all programs)".

Mathematical and Physical Sciences

• Bachelor of Mathematics
Academic programs available
The Faculty of Mathematics consists of the Departments of Applied Mathematics, Combinatorics and Optimization, Computer Science, Pure Mathematics, Statistics and Actuarial Science, and a Division of Mathematics for Industry and Commerce.

The Faculty of Mathematics offers undergraduate programs leading to the following Bachelor of Mathematics degrees: Four-Year B.Math. Honours; Three-Year B.Math. General.

B.Math. honours programs are designed for full-time, on-campus students who wish to pursue four years of in-depth studies in the mathematical sciences. Honours programs are more demanding than the general program, in that they require more in-depth mathematics courses, a higher proportion of mathematics vs. non-mathematics courses, and a larger total number of courses. The three-year B.Math. general program, on the other hand, is intended for students who, while they have a definite interest in mathematics, may prefer more latitude in the depth and breadth of their course selection, or perhaps simply want to limit their studies at university to three academic years rather than four. The course requirements for a three-year B.Math. general degree allow students to pursue a more general education and include a larger proportion of non-mathematics courses in their program than is the case with honours programs, a feature which can often appeal, for example, to students seeking a pre-professional university program. Furthermore, since there are no on-campus full-time residency requirements for a three-year B.Math. general degree, students can pursue such a program on either a full- or part-time basis, either on campus or by correspondence through the University of Waterloo Correspondence Program.

Most of the faculty's four-year honours programs are available in both the regular (i.e., conventional September to April academic year) and co-operative (i.e., alternating four-month academic and work terms) systems of study, but some are available only in the co-operative system of study. The three-year B.Math. general program is available only in the regular system of study.

Wherever honours programs are available in both systems of study, the academy degree requirements are identical for both co-operative and regular students. For a co-operative program, there are also additional degree requirements pertaining to work terms and written work reports.

Students may register in any mathematics program through St. Jerome's College.

The usual course load each term for first-year mathematics students consists of algebra, calculus, and computer science, regardless of which particular program may be of potential interest in later years, plus two non-mathematics courses, which may depend upon the program(s) of potential later interest. This commonality of core curriculum, which continues to a large extent into year 2, permits considerable flexibility for students to change from one program to another within the faculty. In fact, if non-math courses are chosen judiciously, this flexibility for change can be extended to many programs in other faculties as well.

The following departmental honours programs are available: actuarial science, applied mathematics, applied mathematics with engineering electives (co-op only), combinatorics and optimization, computer science, computer science with electrical engineering electives (co-op only, computer science/information systems option (co-op only), operations research, pure mathematics, statistics, and applied statistics with engineering electives (co-op only). Joint honours programs combining computer science with applied mathematics, business administration, chartered accountancy (co-op only), combinatorics and optimization, management accounting (co-op only), pure mathematics, or statistics are also available. As well, students may enrol in various double honours combinations, both within the Faculty of Mathematics and with academic disciplines in other faculties.

The following mathematics programs with specialized options are also available: mathematics/business administration, mathematics/chartered accountancy (co-op only), mathematics/management accounting (co-op only), mathematics/teaching (co-op only).

The Faculty of Mathematics, in co-operation with the the Division of Mathematics for Industry and Commerce, the School of Business and Economics at Wilfrid Laurier University, the Departments of Economics and Management Sciences, and the School of Accountancy at Waterloo, offers unique programs combining mathematics with business administration, chartered accountancy, and management accounting. Each of these is designed so that students gain an appreciation of the applications of mathematics to commerce and gain experience in areas such as banking, marketing, production control, accounting, auditing, etc. All three options are available at the honours level only in the co-operative system of study. Only the business administration option is available in the regular system of study.

The chartered accountancy and management accounting options are offered in co-operation with the Institute of Chartered

Accountants of Ontario and the Society of Management Accountants of Ontario, respectively. Graduates of the chartered accountancy option will normally have completed all formal university course work required by the institute. The other principal requirements for the CA designation include two or three years' work experience in public accounting and successful completion of the national institute's uniform final examinations. The management accounting option is structured so that successful completion of the program normally qualifies a student for 16 CMA exemptions and also to write four of the society's six uniform national examinations required for CMA (Certified Management Accountant) certification.

Co-operative work terms are accepted by both the institute and the society as part of their respective internship requirements. Thus, co-op graduates of the mathematics/accounting programs are able to complete all institute or society requirements in as little as one year after graduation.

Graduates of the programs offered by the Division of Mathematics for Industry and Commerce will be equipped to continue with a postgraduate level of education in subjects related to business and management. Recently a linkage program has been established with the School of Business and Economics at Wilfrid Laurier University that will permit graduates to obtain an M.B.A. degree in as little as one year following completion of the honours B.Math. degree.

The co-operative teaching option in the Faculty of Mathematics is an integrated program involving the Faculty of Mathematics and the Faculty of Education at the University of Western Ontario. The program combines an academic program in mathematics, co-op work experience in business and industry, teaching experience in Ontario secondary schools, and professional training in education. Graduates obtain a B.Math. degree from Waterloo and a B.Ed. degree from Western, and they emerge as fully qualified secondary school mathematics teachers in Ontario.

Students interested in the teaching option should enrol in any one of the Faculty of Mathematics co-operative programs in the first year. Candidates for admission to the teaching option are considered in year two on the basis of first-year academic and work-term performance and success in an interview process.

For students who wish to have breadth of mathematics studies at the honours level rather than specialization, the faculty also offers an interdepartmental honours program. Students select a wide variety of courses from the complete spectrum of departmental offerings. Graduates of this program will be prepared either for careers in the applications of mathematics or for graduate studies. By choosing appropriate courses, a student should be eligible to proceed from this program to graduate work in any area of mathematics.

Faculty admission requirements
Applicants are encouraged to develop as much breadth as possible by choosing courses from the arts, humanities, social sciences, and physical sciences. In particular, it is recommended that applicants considering a mathematics and accounting program include at least one accounting course as part of their secondary school program.

Applicants are required to have a minimum of six Grade 13/OAC credits, which must include OAC algebra and geometry, OAC calculus, and OAC English, with a minimum grade of 60% in each of the three required courses. Although finite mathematics is not a specfic requirement and lack of it will not adversely affect consideration for admission, it is strongly recommended that applicants include this course in their selection.

Applicants presenting a combination of Grade 13/OAC mathematics credits will be considered on an individual basis. However, OAC English is a requirement for all applicants presenting either OAC calculus or OAC algebra and geometry.

The majority of admitted students have averages of 75% or higher. The admissions committee also pays close attention to evidence of an exceptional aptitude and interest in mathematics, teachers' recommendations, performance in the Descartes Mathematics Contest, the number and variety of Grade 13/OAC credits, and involvement in extracurricular activities. Students not offered admission to the program of their choice are considered for all other mathematics programs.

Admission to specialized programs
Students admitted to the Faculty of Mathematics identify with a specific program within the faculty at different year levels, depending upon admission category and particular program of interest. The only students admitted to specialized honours programs in year 1 are co-op students who wish to register in one of the following programs: actuarial science, applied mathematics with engineering electives, mathematics/chartered accountancy, or mathematics/management accounting. These co-op students are identified at the beginning of year 1 because of the specialized nature of the work-term employment involved.

All other mathematics students register in the interdepartmental honours program in year 1. In subsequent years, beginning with year 2, students may elect to enter a specialized program or choose to remain registered in the interdepartmental honours program. For many specialized honours programs, admission at the year 2 level is normally automatic for students who have successfully completed year 1. However, in the case of certain restricted-enrolment programs, there is a formal admission process. Academic performance in first year and/or the results of personal interviews are normally the mai criteria for admission to restricted enrolmen programs.

Applicants holding student authorizations
A maximum of 5% of the available freshma seats in the Faculty of Mathematics are open to qualified applicants who hold student authorizations (visas). Please note that this quota on international-student enro ment does not apply to permanent residents in Canada (landed immigrants). This same 5% quota applies to all restricted-enrolment mathematics honours programs for which formal admission occurs beyond first year (*e.g.*, computer science major programs).

For more detailed information, please consult the university undergraduate calendar and/or contact the Assistant Registrar, Facul ty of Mathematics.

• Bachelor of Science

Four-year honours
Available in: biochemistry, chemistry (options in environmental studies, mathematics, physics), earth sciences (options in geology, geophyscis, geography), economics, physics (variety of options).

Admission requirements
See *Admission Requirements,* "Science programs".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general (with major)
Available in: anthropology, classical studies*, economics, geography†, history*, medieval studies*, political science, psychology, social development studies (Renison College), sociology.

Four-year general (with major)
Available in: anthropology, economics, geography, political science, psychology, sociology.

Four-year honours (regular, applied studies co-op, applied studies co-op – arts administration specialization)
Available in: anthropology, classical studies*, economics, geography†, history*, medieval studies*, political science, political science (administrative studies option), psychology, social development studies (Renison College) (not available through the Applied Studies program), sociology.

Four-year honours (co-op)
Available in: chartered accountancy studies, management accountancy studies.

*For the purposes of the University of Waterloo, this course falls under the humanities heading.

†Students may also pursue a geography program through the Faculty of Environmental Studdies. They may not pursue a geography program through an Applied Studies program.

A combined honours B.A. in accounting and master's degree in accounting (MACC) has received special status from the Institute of Chartered Accountants of Ontario and from the Society of Management Accountants of Ontario. Graduates of this program will proceed directly to write the Uniform Final Examinations (CA) or the Final Accreditation Examinations (CMA).

Co-operative work terms are accepted by both the institute and the society as part of their respective internship requirements. Thus, co-op graduates are able to complete all institute or society requirements in as little as one year after graduation.

• Bachelor of Environmental Studies

The Faculty of Environmental Studies is comprised of two professional schools (School of Architecture and School of Urban and Regional Planning) and two academic departments (Department of Environment and Resource Studies and Department of Geography).

Students may be granted a Bachelor of Environmental Studies degree in the following programs: honours in environment and resource studies – four years, four and two-thirds years co-op system; honours geography – four years, four and two-thirds years co-op system; major in geography (general degree) – three years or four years; honours in urban and regional planning – four years, four and one-third years co-op system; architecture (pre-professional program) – three and one-third years co-op system.

The professional Bachelor of Architecture degree is granted after two and two-thirds additional years of study following the completion of the Bachelor of Environmental Studies/Architecture pre-professional program. The professional Bachelor of Architecture program is on the rotating work/study co-op system only.

Admission requirements

Applicants to environment and resource studies, geography, or urban and regional planning must present six Grade 13 or OAC credits including English. It is recommended that students present at least one Grade 13 or OAC credit in mathematics for admission to programs in environmental studies.

Calculus is preferred for the urban and regional planning program. University-entrance level geography is recommended for the geography program. University-entrance level science is recommended for the environment and resource studies program.

For specialization in architecture, students must present six Grade 13 or OAC credits including English or *français*, calculus, physics, algebra and geometry (OAC). Finite mathematics is strongly recommended.

Selected applicants to the architecture program are normally required to attend an interview at the university. Admission is based on the results of the interview (including a required portfolio), an English writing exercise designed to test skills of analysis and expression, and secondary school achievement.

Selected applicants to the planning program are normally required to come to the university for an interview as part of the admission process. Selection for the interview is based on the secondary school record, including university-entrance level courses. Admission is based on the results of the interview, letters of reference, a personal information form, and secondary school achievement.

• Bachelor of Science

Four-year honours

Available in: liberal science, psychology, science (non-specialized), science and business.

Admission requirements:

See Admission Requirements, "Science programs".

Special Programs

• Bachelor of Arts

Honours co-operative program

The honours applied studies co-op program allows students to select an honours major in almost any discipline in the faculty, including anthropology, classical studies, drama and theatre arts, economics, English, fine arts, French, German, history, Latin, medieval studies, philosophy, political science, psychology, religious studies, Slavic studies, sociology, or Spanish. Coures in management and administration, communications, computer science, and Canadian issues are included in the applied studies program. Students may enter the arts administration specialization (for specific training and experience in the management of fine and performing arts organizations) from applied studies. Students may also enter the French teaching specialization from applied studies. This option combines on honours B.A. in French and a B.Ed. from Brock University and provides the necessary academic and practical preparation necessary for certification in Ontario.

Admission requirements

See Admission Requirements, "Arts programs."

• Bachelor of Science

Honours co-operative programs

Five programs that begin in first year are offered under the co-operative system of study: co-op biology, co-op biochemistry, applied chemistry, applied earth sciences (geology and geophysics), and applied physics (also with geophysics option). These programs provide the student with the sound academic training and practical experience normally gained in industry and governmental agencies.

Admission requirements

See Admission Requirements, "Science programs".

Honours science and business, liberal science

Honours science and business is a four-year honours degree; liberal science (science for generalists) is a four-year honours or three-year general degree.

Admission requirements

See Admission Requirements, "Science programs".

• Bachelor of Independent Studies

The Independent Studies program provides students with the opportunity to create, structure, and pursue their own studies using the resources of the university and the community. The program may include a combination of independent research, course work, seminars, tutorials, special projects, and field work.

The B.I.S. degree is awarded on the basis of the recommendation of supervisors (including two university faculty), appointed by the Academic Board for Independent Studies, which evaluates the student's program during a concluding two-term candidacy period. Applicants (with or without a formal background) are expected to show strong aptitude for self-direction and the ability to flourish in an unstructured academic setting.

• Bachelor of Arts (Dance), Bachelor of Science (Health Studies), Bachelor of Science (Kinesiology), Bachelor of Arts (Recreation and Leisure Studies)

The Faculty of Human Kinetics and Leisure Studies offers four different honours programs. The dance program is available only under the regular system. The health studies, kinesiology, and recreation and leisure studies programs may be studied under either the regular or the co-op system.

The regular honours programs are four years in length, and the honours co-op programs are four and two-thirds years in length. A three-year general program in dance and a four-year general program in kinesiology are also available.

In the dance program, students study the history of dance, child development theories as they apply to teaching dance, dance notation, and choreography. A full range of technique courses is offered in both ballet and modern, from the elementary to advanced levels. Talented dancers are able to pursue a joint academic/professional teaching stream that is offered in conjunction with the dance program and the National Ballet school. Careers: dance notator, dance therapist, choreographer, movement education consultant, arts administrator.

Health studies is the only program of its kind in Canada. Unlike high school health classes, the program focuses on human science and disease as it relates to lifestyle

and disease prevention. Students learn how to evaluate and interpret health-related research, become aware of current health issues, and gain an understanding of the Canadian health care system. Areas of specialization include health promotion, environmental health, biomedical studies, and health administration. Careers: health eduator, health planner, health research coordinator, occupational health and safety consultant and specailist, health promotion consultant, health information analyst, health care consultant. Health studies is also an excellent program for students who are considering a career in medicine or other health professions.

Kinesiology students approach human-movement issues from a scientific perspective. Describing, identifying, analysing, and adapting human performance is the focus of this program. Students are able to specialize in occupational kinesiology, clinical kinesiology, exercise management, research, injury prevention, special testing, and administration. Careers: ergonomist, human factors specialist, employee fitness director, joint disease research assistant, athletic therapy consultant, exercise physiologist, kinesiologist-cardiac rehabilitation, Fitness Canada consultant, electromyography technologist. Kinesiology is also an excellent program for students who are considering a career in medicine, chiropractic or other health professions.

Recreation and leisure studies prepares graduates to take on administrative roles in the recreation and leisure industry. Students are able to specialize in business management, human development and therapeutic recreation, urban and municipal recreation, parks and outdoor recreation, cultural policy and leisure behaviour, and tourism and cultural recreation. Careers: recreation consultant, manager of tourism and convention services, director of parks and recreation, recreation therapist, sport consultant, recration planner, community arts development officer, tourism consultant.

Admission requirements

Applicants to the dance program are required to have six OAC or Grade 13 credits. It is recommended that applicants include English in their university-entrance level programs. Auditions for technique placement in ballet and modern dance are required and are held in May.

Applicants to the health studies program are required to have six OAC or Grade 13 credits, including biology and chemistry. Applicants are strongly advised to complete a personal information form.

Applicants to the kinesiology program are required to have six OAC or Grade 13 credits including calculus, chemistry, and one science from biology or physics. Physics is especially recommended. Applicants are strongly recommended to complete a personal information form.

Applicants to the recreation and leisure studies program are required to have six OAC or Grade 13 credits. It is recommended that applicants include one university-entrance level mathematics course.

Applicants are strongly encouraged to complete a personal information form.

University of St. Jerome's College

The University of St. Jerome's College, federated with the University of Waterloo, is located in the heart of the university campus, and offers programs in liberal arts and mathematics. Students earn University of Waterloo degrees. Undergraduate students may register in regular and departmental co-operative programs in arts and in all regular and co-op programs in mathematics through the college. St. Jerome's offers a unique perspective in its own wide range of courses, and its students enjoy both the benefits of a large university and the advantages of being part of a smaller college community. Thirty full-time and six part-time professors comprise the college's faculty. Students can live in St. Jerome's men's or Notre Dame women's residences and participate in many social and athletic activities on campus. A generous scholarship program is available to all applicants who register in arts or mathematics at St. Jerome's.

Renison College

Renison College offers men and women life in a small residential community combined with the resources of the larger university.

Courses leading to a Bachelor of Arts degree are available in two areas:

a) social development studies, featuring interdisciplinary work in interdisciplinary social science, psychology, social work, and sociology. Developed for persons interested in the helping professions, this program has been used as a preparation for careers and graduate studies in social work and as a background for studies in education, theology, law, and journalism.

b) general arts, including courses in arts, English, fine arts, geography, psychology, religious studies, and sociology.

The college also offers a diploma and certificates in social work.

Conrad Grebel College

Conrad Grebel College is a Mennonite-sponsored residential and teaching college affiliated with the University of Waterloo. A faculty of nineteen offer university credit courses in arts, history, philosophy, religious studies, sociology, and peace and conflict studies. In addition, the college provides the entire music program for the University of Waterloo. The college also offers a Master of Theological Studies (M.T.S.) program. The residence program emphasizes a responsible and caring community and encourages Christian values. In addition to accommodating 113 students in residence, the college also provides an associate student program for students unable to live in residence but wishing to relate to the college.

St. Paul's College

St. Paul's United College is a small teaching and residential community. It offers a number of university credit courses in religious studies and Canadian studies. For more information about these programs, refer to the appropriate sections in the undergraduate calendar of the university.

Residence life provides a valuable contribution to student life at the university. Through a program of athletics, community dinners, social activities, student counselling, and student government, residents in the college and associate members participate in a vital and enriching community experience. Twenty students each term are offered the "Living in French" experience.

Residence 1989-90

Student Village I and II $1 973 (single), $1 836 (double)
Conrad Grebel College $1 840 (double)
Renison College $1 883 (single), $1 840 (double)
St. Jerome's College $1 820 (double), $2 065 (semi-private)
Notre Dame College $1 925 (single) $1 765 (double) (no meals Saturdays)
St. Paul's College (double) approximately $1 836

The above fees are for a four-month academic term. All rates include meals.

Tuition Fees

The following possible total undergraduate fees for Canadian citizens and permanent residents are for a four-month academic term, including incidental fees.

Architecture – year one $916.41; upper year co-op $1 224.37
Arts regular and accountancy studies regular $852.41; accountancy studies PAS* $1 019.41; arts co-op and account ancy studies co-op $1 160.37
Engineering $1 232.87
Environmental studies regular $852.41; co-op $1 160.37
Human kinetics and leisure studies regular $850.41; co-op $1 158.37
Independent studies $847.41

*The Professionally Accredited Stream (PAS) of this program includes an internship fee of $167 per term.

Mathematics
regular $852.41
co-op $1 160.37
Optometry $920.41
Science regular $856.41; co-op $1 164.37

Further Information
Inquiries concerning admission requirements and student awards should be directed to
Ms. Norma S. Walker
Director of Admissions and Student Awards
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2265

Director of Secondary School Liaison
Mr. Stephen J. Little
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 6050

To visit the campus, contact
Ms. Gail Ruetz
Visitors Reception Centre
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 3614

University of Western Ontario

London

President: K.G. Pedersen

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	21 602	1 913
Part-time	6 547	667

Faculties, Schools, and Institutes
Faculty of Applied Health Sciences
Faculty of Arts
Faculty of Dentistry
Faculty of Education
Faculty of Engineering Science
Faculty of Graduate Studies
Faculty of Law
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Part-Time and Continuing Education
Faculty of Physical Education
Faculty of Science
Faculty of Social Science
Graduate School of Journalism
School of Business Administration
School of Library and Information Science

Affiliated Colleges
Brescia (Roman Catholic), Huron (Anglican), and King's (Roman Catholic).

General Admission Requirements
1)Enrolment in first year is limited, and admission to each program at Western is competitive.
2) Western will accept first-year students up to its maximum capacity. Applicants seeking admission from Grade 13 require a minimum of six Grade 13 credits approved by the Ministry of Education in accordance with Circular H.S.1 and the university. Applicants presenting the OSSD must include a minimum of six OACs. During the transition period to the new OSSD both the OSSHGD and OSSD will normally be given equal consideration for admission purposes. The university will also accept a combination of Grade 13 credits and OACs for admission consideration.
3) Early provisional offers of admission are based on the applicant's Grade 13 or OAC interim average.
4) The applicant must provide evidence of proficiency in English if English is not the first language. The university reserves the right to deny admission to applicants who cannot provide proof of English proficiency, regardless of academic qualifications.
5) An offer of admission will be withdrawn if the student's final average is less than 60%.

Subject Area Requirements
In addition to the general requirements, the following specific Grade 13 or OAC courses are required or recommended for entry to particular first-year programs. (For programs not listed below, check under the specific program listing for admission requirements.)

Arts
English and a second language are strongly recommended. Specific programs may have their own admission requirements (Grade 13 or OAC).

Physical education
Grade 13 biology is recommended; Grade 12 or 13 mathematics and Grade 11 or 13 physics are strongly recommended. For applicants presenting the OSSD, OAC biology is recommended. OSSD Grade 12 mathematics (preferably advanced level) or an OAC mathematics and OSSD Grade 12 physics at the advanced level or OAC physics are strongly recommended. For the four-year program, if Grade 13 or OAC biology is not taken then a biology course must be included in first year.

Science
Grade 13 calculus and Grade 13 functions and relations are required. For applicants presenting the OSSD, OAC calculus and OAC algebra and geometry are required.

Social science
Grade 13 or OAC English is strongly recommended, and a second language is valuable. Students interested in economics, geography, psychology, and sociology are strongly urged to complete at least two credits in mathematics, including calculus, and to explore computer science. Grade 13 calculus and functions and relations or OAC calculus and OAC algebra and geometry are required for entry into any 020-level calculus course.

Visual arts
Languages other than English are strongly recommended for those concentrating in art history and criticism (Grade 13 or OAC).

Limited Enrolment
The following upper-year programs have limited enrolment: business administration, dentistry, law, medicine, post-R.N. nursing, occupational therapy, physical therapy, social work.

To meet its educational objectives while maintaining an appropriate university environment for incoming students, Western's senate has established an enrolment ceiling of 4 000 for entering full-time first-year students. Space in each program is limited, admission each year is competitive, and the minimum admission average may vary each year.

All first-year programs have limited enrolment and are divided into the following groups:

Program	Spaces
Arts (incl. Visual Arts)	1 830
Physical Education	(incl)
Social Science	(incl)
Admin/Comm Studies	325
Engineering	275
Music	150
Nursing	60
Science	1 360

In addition the affiliated colleges have the following enrolment ceilings for entering full-time first-year students:

Brescia College	250
Huron College	250
King's College	550

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general
Available in: biology, biology and chemistry (combined).

Four-year honours
Available in: biochemistry, biology, biophysics, cell biology, ecology and evolution, genetics, microbiology and immunology (combined), plant sciences, zoology.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

Education/Physical Education/Recreation

• Bachelor of Arts

Three-year general/four-year honours
Available in: physical education.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Physical education".

• Bachelor of Education

One-year program.

Admission requirements
Applicant must have a university degree.

Engineering and Applied Sciences

• Bachelor of Engineering Science
Four years beyond senior matriculation. Specialization chemical and biochemical (combined), civil, electrical, materials, mechanical engineering.

Admission requirements
Six Grade 13 credits including calculus, functions and relations, and two credits from algebra, chemistry, and physics. It is strongly recommended that the sixth credit be a subject that requires literary skills, such as English, history, or geography.

For applicants presenting the OSSD, OAC calculus, OAC algebra and geometry, OAC chemistry, OAC physics, and OAC English 1 are required. See also *General Admission Requirements*.

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: film (arts), music, visual arts.

Four-year honours
Available in: art history and criticism (visual arts), English and drama (arts), music, visual arts.

Admission requirements
Arts – see *Subject Area Requirements*, "Arts".
Dance – see *Subject Area Requirements*, "Physical education".
Music – a satisfactory audition and informal interview are required.
Visual arts – see *Subject Area Requirements* "Visual arts".
See also *General Admission Requirements* for general requirements for all programs.

• Bachelor of Fine Arts

Four-year honours
Available in: studio arts.

Admission requirements
See *General Admission Requirements*, and *Subject Area Requirements*, "Visual arts".

• Bachelor of Music

Four-year honours
Available in: music education, music history, performance (any standard orchestral or band instrument, piano, organ, harpsichord, harp, or voice), theory and composition (combined).

• Bachelor of Musical Arts

Three-year general
Available in: music education, performance.
Note: The Faculty of Music also offers a one-year and a three-year Artist Diploma in Performance. With the exception of the Artist Diploma program, all programs have a common first year, with specialization beginning in second year.

Admission requirements
a) six Grade 13 credits or six OAC courses, one of which may be Grade 13 music or the equivalent conservatory certificates (Grade IX vocal or instrumental with Grade III theory).
b) satisfactory audition on the principal instrument (any standard orchestral or band instrument, piano, organ, harpsichord, harp, or voice) of at least conservatory Grade VIII standard (keyboard performers and those intending to major in performance should perform at least at the conservatory Grade X level), scales and other technical exercises, sight reading, and sight singing.
For the three-year Artist Diploma program the audition should demonstrate a performance level of at least a conservatory Grade X standard, and show evidence of exceptional performance ability before a jury.
c) informal interview, for which no special preparation is necessary.
d) Piano requirement (for those whose principal instrument is not a piano) of an approximate Grade VI conservatory level. Otherwise-successful applicants who cannot meet this requirement must satisfy it prior to entry into second year. Students requiring instruction must make their own arrangements at their own expense.
The Faculty of Music also offers a one-year Artist Diploma in Performance for those who possess a Bachelor of Musical Arts (Performance) degree or its equivalent, and who complete a satisfactory audition on the principal instrument (any standard orchestral or band instrument, piano, organ, harpsichord, harp, or voice) of at least Conservatory Associate standard, and show evidence of exceptional performance ability.
Note: The Faculty of Music contacts each applicant about spring audition dates and times.

Health Professions and Medical Sciences

• Bachelor of Science

Four-year honours
Available in: history of science, pharmacology and toxicology (combined), physiology, physiology and psychology (combined).

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

• Bachelor of Science in Nursing

Three-year program (for registered nurses)

Four-year program
The four-year program qualifies graduates to apply for registration with the College of Nurses of Ontario.

Admission requirements
Six Grade 13 credits, which must include at least 60% in chemistry, biology, and Grade 12 mathematics. Applicants presenting the OSSD require at least 60% in OAC chemistry, biology, and OSSD Grade 12 mathematics at the advanced level.

• Doctor of Dental Surgery
Students who are in or who have successfully completed a second-year program at an Ontario university, or an equivalent second year at another university, provided that the program has included a minimum of four honours courses or equivalent (as interpreted by Western) within the first 10 courses completed, are eligible to apply for admission to the first year of the four-year program in the Faculty of Dentistry. All applicants must have successfully completed

one full laboratory course in each of biology, chemistry, physics, and organic chemistry.

One position is available for a student supported by the Canadian International Development Agency or similar sponsor.

• Doctor of Medicine

Requirements for admission to the Doctor of Medicine program
Admission to the first year of the four-year program in the Faculty of Medicine is based on successful completion of a second-year program at a recognized university, provided that the program has included a minimum of four honours courses or the equivalent (as interpreted by Western) within the first 10 courses (five in each year) attempted. All applicants must have successfully completed one full laboratory course in each of biology, chemistry, and physics, have demonstrated competence in organic chemistry to the level of the first full course in organic chemistry offered at Western, and have obtained credit for at least two courses from the Faculties of Arts and/or Social Science, one of which must be a course in literature (English) or history if the applicant does not have Ontario Grade 13/OAC or equivalent English.

Applications will not be accepted from applicants who are not Canadian citizens or permanent residents. (Two positions may be available for students supported by the Canadian International Development Agency or similar sponsor.)

• Bachelor of Science in Occupational Therapy (given through the Faculty of Applied Health Sciences)

Four years
Enrolment is limited. Degree granted: B.Sc.(O.T.).

Admission requirements
Grade 13 biology required. Grade 13 calculus and functions and relations are recommended. Applicants presenting the OSSD must have OAC biology. OAC calculus and OAC algebra and geometry are strongly recommended. Entry into this program occurs in the second year of university, following a preparatory year in the Faculty of Science or the Faculty of Social Science. During this year students are required to take courses in psychology, sociology, and biology; they must also select one course from applied mathematics, chemistry, computer science, physics, or mathematics. See also *General Admission Requirements*.

• Bachelor of Science in Physical Therapy (given through the Faculty of Applied Health Sciences)

Four years
Enrolment is limited. Degree granted: B.Sc.(P.T.).

Admission requirements
Grade 13 calculus and Grade 13 functions and relations or OAC calculus and OAC algebra and geometry are required. Entry into this program occurs in the second year of university, following a preparatory year in the Faculty of Science or the Faculty of Social Science. During this year students must take courses in biology, chemistry, physics, and applied mathematics or mathematics, as well as one course in either psychology, sociology, or anthropology. See also *General Admission Requirements*.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: classical studies, English, film, French, German, Greek, Latin, philosophy, Russian, Spanish, western literature and civilization, women's studies.

Four-year honours
Available in: classical studies, classics, English and drama (combined), English language and literature, French language and literature, German language and literature, Greek and Latin (combined), Latin, philosophy, Russian, Spanish language and literature, women's studies (combined with another subject). All these subjects may be combined with most areas of study in the Faculty of Social Science, and philosophy may also be combined with the history of science or mathematices from the Faculty of Science.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Arts".

• Certificat de Francais Pratique

Admission requirements
Applicants must have Grade 13/OAC French or the practical equivalent. A placement test may be required. Applicants lacking Grade 13/OAC French or practical equivalent may take French 002 and/or French 010 at the university to qualify, for admission to the certificate program. See *General Admission Requirements* and *Subject Area Requirements*, "Arts".

Mathematical and Physical Sciences

• Bachelor of Arts (given through the Faculty of Science)

Three-year general
Available in: computer science, geology, mathematics, statistics.

Four-year honours
Available in: actuarial science, actuarial science with economics, actuarial science and mathematics (combined), history of science and history, history of science and philosophy, mathematics, mathematics with economics, mathematics and statistics (combined), statistics, statistics with economics.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

• Bachelor of Science

Three-year general
Available in: applied mathematics, applied mathematics and computer science (combined), chemistry, chemistry and biology (combined), chemistry and geology (combined), computer science, geology, geophys, mathematics, mathematics and computer science (combined), mathematics and statistics (combined), physics, physiology and computer science (combined), statistics, statistics and computer science (combined).

Four-year honours
Available in: actuarial science, actuarial science and computer science (combined), actuarial science and mathematics (combined), applied mathematics, applied mathematics and computer science (combined), astronomy, astronomy and geophysics (combined), chemistry, computer science, computer science with economics, computer science with mathematics, computer science with philosophy, computer science and physiology (combined), computer science with psychology, computer science and statistics (combined), geology, geophysics, mathematics, mathematics and computer science (combined), mathematics with computer science, mathematics and statistics (combined), physics, physics with computer science, statistics.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

Social Sciences and Related Courses

• Bachelor of Arts (given through the Faculty of Social Science)

Three-year general
Available in: administrative and commercial studies (ACS), anthropology, economics, geography, history, political science, psychology, sociology, womens' studies.

Admission requirements
Along with the specific requirements listed below, see *General Admission Requirements*.
ACS – Grade 13 English and Grade 13 calculus and either Grade 13 functions and relations or Grade 13 algebra; or OAC English and OAC calculus and either OAC algebra and geometry or OAC finite mathematics are required.
All other programs – see *Subject Area Requirements*, "Social science".

Four-year honours
Available in: anthropology, anthropology (linguistics specialization), anthropology (linguistics specialization) and psychology, economics, economics with actuarial

science option, economics with geography option, economics with mathematics option, economics with statistics option, geography, geography (resources conservation), geography (urban development), geography and geology, geography and Spanish, geography with option, history, history and history of science (combined), political science, political science with French option, psychology, psychology and philosophy, psychology and physiology (combined), sociology, women's studies (combined honours only), and combinations of the above. Most of these subjects may also be combined with areas of study in the Faculty of Arts in a combined honours program.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Social science".

• Bachelor of Science (given through the Faculty of Social Science)

Four-year honours
Available in: geography, geography and geology, psychology.

Admission requirements:
See *General Admission Requirements* and *Subject Area Requirements*, "Social Science".

• Bachelor of Arts (Business Administration)
Students seeking admission to the program in honours business administration may apply after the successful completion of at least ten courses of university study, which must include the following courses or their equivalents: one full introductory university applied mathematics, computer science, or mathematics; introductory economics; business 257 (a second-year accounting course). One Ontario Grade 13 or OAC mathematics (or university equivalent) is also required. This program is given through the School of Business Administration.

• Bachelor of Laws
Three years following the successful completion of at least two full years beyond Ontario Grade 13/OSSD in a recognized university. Degree preferred.

• Bachelor of Science (Home Economics) (given through the Faculty of Science and Brescia College)

Three-year general
Available in: clothing, textiles and design, comprehensive, foods and nutrition.

Four-year honours
Available in: clothing, textiles and design, comprehensive (teaching and related fields), foods and nutrition (specializations in human nutrition, general dietetics, food service management, community nutrition).

Admission requirements
Grade 12 mathematics required, Grade 13 English recommended for all programs. Grade 13 biology and chemistry required for comprehensive and foods and nutrition programs. Grade 12 chemistry and Grade 13 biology or chemistry or physics required for clothing, textiles and design program. Grade 13 biology and chemistry both recommended. OSSD applicants: OSSD Grade 12 mathematics (preferably advanced level) required, OAC English recommended. OAC biology and chemistry required for comprehensive and foods and nutrition programs. For clothing, textiles and design program, Grade 11 advanced chemistry and OAC biology or chemistry or physics required. OAC biology and chemistry are both recommended.

• Bachelor of Social Work (given through King's College)

Four-year honours
The first-year program must include a grade of at least 70% in Introduction to Social Work (Social Work O2O) and an average of at least 70% in the four other first-year courses: two courses from psychology, sociology, political science, history, economics, anthropology, and geography; and one course from English, philosophy, French or other languages, classical studies, and one optional first-year course (not social work 030). Students must register at King's College for the final three years of the program. Enrolment is limited.

Admission requirements
See *General Admission Requirements* and *Subject Area Requirements*, "Arts", "Science", or "Social Science".

Brescia College

Brescia College is a residential women's college under Roman Catholic auspices, affiliated with the University of Western Ontario. Certain courses are taken at Western or at the other affiliated colleges. All classes in the college are coeducational.

For further information please contact
Mrs. M. Hawkins
Registrar
Brescia College
1285 Western Rd.
London, Ontario N6G 1H2
Telephone (519) 432-8353

Huron College

Admission requirements
A minimum of six Grade 13 credits or six OACs with an average not less than 75%, which must include English; one course from French, a foreign language, or mathematics; two of biology, chemistry, English, French, foreign languages, geography, history, mathematics, music, physics; courses from at least four different subject areas. Possession of the minimum requirements does not guarantee admission to the college.

For further information please contact
Miss J. Catherine Ridley
Registrar
Huron College
1349 Western Rd.
London, Ontario N6G 1H3
Telephone (519) 438-7224

King's College

For further information please contact
M. Mason
Registrar
King's College
266 Epworth Ave.
London, Ontario N6A 2M3
Telephone (519) 433-3491

Residence
The university provides accommodation for approximately 30% of the non-London student enrolment through the residences for single and married students. Approximately 70% of the beds in the 169traditional-style" residences are reserved for first-year students. There is also a 400-unit apartment complex for single students, and a 400-unit apartment and townhouse family housing complex. First-year and senior-year applicants who are not attending Western will automatically be sent an application for the "traditional-style" residences if they indicate a requirement for residence on their academic application form. Information may be obtained by writing directly to
The Manager
Residence Admissions Office
Room 126, Somerville House
The University of Western Ontario
London, Ontario N6A 3K7
Note: The Off-Campus Housing Service is located in Room 126, Somerville House, and must be visited in person.

Westminster College
Westminster College is a United Church of Canada sponsored residential college for 238 students. For information please write to
Mr. L. Glassford
Dean of Residence
Westminster College
361 Windermere Rd.
London, Ontario N6G 2K3

Tuition Fees 1988-89
(including incidental fees)
Faculties of Applied Health Sciences, Arts, Science, Social Science, Business Administration, Education, Physical Education, Nursing, Law, Music $1 584.65
Faculty of Engineering $1 704.65

Faculty of Dentistry
(first year including dental kit fee) $5 567.65
Faculty of Medicine $1 967.65

These fees include a non-academic charge for the University Community Centre, Recreation and Athletic Building, the University Students' Council, athletics, and health services.

Estimated tuition fees for students on student visas
First-year students, excluding those programs listed below $5 024.65
First-year engineering, dentistry, education, home economics, medicine (M.D.), nursing $8 079.65

Further Information
For additional information on admission, programs, the pre-admission academic counselling program, or on visiting Western, please contact
Director, Liaison Services
Stevenson-Lawson Building, Room 151
The University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2026

Associate Director, Admissions and Academic Records
Stevenson-Lawson Building, Room 165
The University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2150

For information and application forms for student awards and loans, write to
Director of Student Awards
Somerville House, Room 107
The University of Western Ontario
London, Ontario N6A 3K7
Telephone (519) 661-3032

Wilfrid Laurier University

Waterloo

President: Dr. John A. Weir

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	5 224	375
Part-time	2 852	326

Faculties, Schools, and Institutes
Faculty of Arts and Science
Faculty of Graduate Studies
Faculty of Music
Faculty of Social Work
School of Business and Economics
Waterloo Lutheran Seminary

General Admission Requirements
Admission from Ontario secondary schools to the university will be based on the following criteria:
a) Grade 13 subjects sufficient to qualify the applicant for an OSSHGD, plus the specific program requirements as outlined after each program listing, *or,* for those students completing the new OSSD: applicants will be required to have completed all diploma requirements, including satisfactory standing in six OACs. The admission average will be based on the OACs, and specific required subjects will be the same as specified for Grade 13 unless otherwise noted. Additional guidelines are offered in the admission section of the undergraduate calendar.
b) An academic standing based on the applicant's record of the last two years.
c) A recommendation from the secondary school principal will be reviewed.

Bachelor of Arts
A three-year general program (15 courses) and a four-year honours program (20 to 24 courses) are available. All programs require Grade 13/OAC English. For the honours program, the applicant must have the minimum subject standing(s) specified by the department in which he or she wishes to pursue honours studies. Although a minimum Grade 13/OAC average of 60% is required for general programs and 65% is required for honours programs, a higher average may be required for admission to programs in which the demand for places exceeds availability.

Bachelor of Science
A three-year general program (15 courses) and a four-year honours program (20 to 22 courses) are available. All programs require Grade 13/OAC English. Requirements for admission to the general science programs are two mathematics (Grade 13/OAC calculus and either OAC algebra and geometry, Grade 13 algebra, or Grade 13 functions and relations), any two of Grade 13/OAC biology, chemistry, or physics, and Grade 13/OAC English. Students who do not satisfy all of the above requirements but who do have a good overall academic standing may be eligible for admission. Admission will be at the discretion of the Admissions Committee. Requirements for admission to the honours science programs are two mathematics (Grade 13/OAC calculus and either OAC algebra and geometry or Grade 13 algebra or Grade 13 functions and relations), two of biology, physics, or chemistry, and Grade 13/OAC English. Note: The applicant must possess the minimum subject standing(s) specified by the department in which he or she wishes to pursue honours studies. Double honours programs in chemistry and biology and in mathematics and biology require two mathematics, one of which must include calculus, chemistry, and one of biology or physics for both programs. Requirements for admission to the honours computing and computer electronics are two mathematics (Grade 13/OAC calculus and either OAC algebra and geometry or Grade 13 functions and relations), and Grade 13/OAC physics. Chemistry is also recommended.

Agricultural and Biological Sciences

• Bachelor of Arts

Three-year general
Available in: biology (available as a second major only).

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: biology.

Four-year honours
Available in: biology, biology and chemistry (combined), biology and mathematics (combined), biology with possible concentration in ecology, taxonomy, general botany, general zoology, pre-medicine, or pre-dentistry.

Admission requirements
See *General Admission Requirements,* "Bachelor of Science".

Education/Physical Education/Recreation

• Bachelor of Arts

Three-year general
Available in: physical education, physical education: coaching option (as a second major).

Admission requirements
See *General Admission Requirements,* "Bachelor of Arts".

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: fine arts, music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts". Applicants to the General Arts, music major program must have an audition/interview with the Faculty of Music. For details, see below under Bachelor of Music honours program.

• Bachelor of Music

Honours program
Four years (22 courses and participation in at least one choir or ensemble each year). Students may follow the honours B.Mus. degree without specialization or they may choose to specialize in performance, baroque music, church music, theory, history, composition, or music education. Courses are offered in theory, history, music education, and performance (instruction in all instruments and voice is offered).

Admission requirements
For the B.Mus. honours program a minimum Grade 13/OAC average of 60% is required. Additional qualifications are required:
a) for all prospective B.Mus. students: music 115 or its equivalent (Grade 2 conservatory theory) and Grade 6 level piano are required. Students who do not have Grade 6 piano or its equivalent on admission must meet the Faculty of Music requirement in piano proficiency (approximately equivalent to Grade 6) before being admitted to second year of the degree program.
b) for prospective piano and organ students: a minimum level of Grade 9 conservatory level piano or its equivalent is required.
c) for prospective students in voice or instruments other than organ or piano: there is no required grade, although Grade 8 conservatory level may be taken as a guide to the minimum level.

All prospective students must have an audition-interview with the faculty, to be arranged by appointment by April 30.

The applicant will be required to take a musical aptitude test and a written theory test and to perform two compositions in contrasting styles in his or her own performance medium. In addition, the applicant will be given sight-reading and ear tests and a written theory placement test. All documentary evidence of the applicant's musical background and examination results should be sent to the Office of the Registrar before this interview. Late applicants will be considered if space permits.

Practicum program
The practicum program, the first of its kind in Canada, provides an opportunity for students to obtain a higher standard of performance, as well as practical experience, by involving themselves in projects such as performance, teaching, church music, administration, and music publishing. Students undertaking the practicum study complete three terms a year. In this manner, students may take advantage of full-time jobs when they are normally available, in the fall.

• Bachelor of Music Therapy

Honours program
The Honours Bachelor of Music Therapy is a four-year degree program beyond Ontario Grade 13 or equivalent standing. It prepares students for professional work in music therapy. In order to apply for accreditation by the Canadian Association of Music Therapy, graduates of the program will have to have at least six months' satisfactory professional experience, normally in an internship, beyond the degree. The program consists of 23 two-term courses, of which at least seven must be in psychology and sociology, eleven in music, and three-and-one-half in music therapy. Selection for admission to the B.Mus.Th. program is made by the Faculty of Music Admissions Committee on a competitive basis at the conclusion of year 2 of the honours music program. Students planning to complete a B.Mus.Th. degree should apply for entry to the B.Mus. program and select courses in years1 and 2 in accordance with guidelines offered by the Faculty of Music.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: archaeology, classics (Greek and Latin), communications, English, film studies, fine arts, French, German, philosophy, religion and culture, Spanish.

Four-year honours
Available in: archaeology, classical studies, English language and literature, French, German, Greek, humanities studies, Latin, philosophy, religion and culture, Spanish.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Three-year general
Available in: mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Three-year general
Available in: chemistry, mathematics, physics and physical geography.

Four-year honours
Available in: computing and computer electronics, chemistry, chemistry and biology (combined), geography, mathematics, mathematics and biology (combined).

The aim of the computing and computer electronics program is to help students develop extensive programming abilities and acquire an in-depth understanding of computer hardware, microprocessors, microelectronics, and digital systems.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, Canadian studies, communication studies, economics, geography, history, political science, psychology, sociology, and urban studies.

Four-year honours
Available in: anthropology, economics (see below), geography, history, political science, psychology, sociology.

• Bachelor of Arts – Honours Economics

Four-year honours (22 courses)
Students may combine honours economics with the finance and accounting option, co-operative option, administration option, mathematics option, or with another honours program.

Co-operative option
The undergraduate honours economics degree programs also offer a co-operative option. Co-op students begin their alternating sequence of work and study terms at the end of second year. Normally, a student would accumulate twelve months of practical work experience and graduate four months after students in the regular sequence. Students apply for the co-op option during their second year of studies.

Admission requirements
For the honours Bachelor of Arts in economics, students are required to have one Grade 13/OAC mathematics course, selected from Grade 13/OAC calculus or Grade 13 functions and relations (calculus is recommended), and one Grade 13/OAC English course. An additional Grade 13/OAC mathematics course is recommended.

• Bachelor of Business Administration

Four-year honours (22 courses)
Students may combine studies with options in biology, chemistry, economics, mathematics, or physics.

Co-operative option
The undergraduate business administration degree program also offers a co-operative option. Co-op students begin their alternating sequence of work and study terms at the end of the second year. Normally, a student would accumulate 12 months of practical work experience and graduate four months after students in the regular sequence. Students apply for the co-op option during their second year of studies.

Admission requirements
Students are required to have one Grade 13/OAC mathematics course selected from Grade 13/OAC calculus or Grade 13 functions and relations (calculus is recommended), and one Grade 13/OAC English course. An additional Grade 13/OAC mathematics course is recommended. The minimum Grade13/OAC average is determined yearly by an Admissions Committee.

Special Programs

• Internship Options
Internship options are available in honours anthropology, biology, computing and computer electronics, English, history, geography, mathematics, political science, psychology, and sociology. Students in the internship program gain practical work experience at the end of their second and third academic years. Enrolment is limited, and application to the program must be made in first year.

• Administration Option
Students registering in honours arts or science programs may wish to select the administration option. This option provides fundamental training in administration for arts or science students; seven specified business-related courses must be successfully completed within the 22-course honours degree program.

• Continuing Education
In the fall of 1978, Telecollege began offering university credit courses through television to students in the Waterloo area. Designed to bring the university directly to the homes of people unable to make regular trips to the campus, Telecollege will feature weekly introductory and senior courses in the humanities, social sciences, and business, monthly live phone-in programs, and frequent meetings between professors and students. Such students will write essays and exams and will be subject to all the other requirements of regular students.

Residence 1988-89
Double rooms $1910
Single rooms $2 080
Meal plans
On-campus residents (minimum) $1 420
Off-campus residents (minimum) $200

Tuition Fees 1988-89
(excluding incidental fees)
Full-time $1 410

Further Information
Inquiries about admission requirements should be directed to
Mr. B. George Granger
Associate Registrar (Admissions)
Mrs. Christine Fazackerley
Admissions Officer
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2351

Inquiries about secondary school liaison and general university information should be directed to
Office of High School Liaison
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2385

Information about student awards and loans may be obtained from
Mrs. Pauline Delion
Director
Student Awards
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 4256

University of Windsor

Windsor

President: Dr. R.W. Ianni

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	9 030	578
Part-time	5 004	278

Faculties, Schools, and Institutes
Faculty of Arts
Faculty of Business Administration
Faculty of Education
Faculty of Engineering
Faculty of Graduate Studies
Faculty of Human Kinetics
Faculty of Law
Faculty of Science
Faculty of Social Science
School of Computer Science
School of Dramatic Art
School of Music
School of Nursing
School of Social Work
School of Visual Arts
Centre for Canadian–American Studies
Fluid Dynamics Research Institute
Great Lakes Institute
Industrial Research Institute
Innovation Centre
International Relations and Development Institute

General Admission Requirements
An OSSHGD is required. Under OSIS, completion of the OSSD and six OACs will be required. The six OACs may be part of the 30 credits required for the OSSD. The subjects required vary according to the university program the student wishes to enter.

Early admission will be granted to fall 1990 applicants on the basis of:
a) the total secondary school performance
b) Grade 13 or the six OACs term and interim marks
c) principal's recommendation

Note: for all programs, because of limitations in enrolment, preference will be given to students with the best academic qualifications.

Bachelor of Arts
An OSSHGD or OSSD and six OACs, including English I, with a minimum overall average of 60% are required. For programs involving languages, the Grade 13/OAC level of the appropriate language is normally required. For honours geography, finite mathematics is required. For general or honours mathematics, calculus and algebra and geometry are required.

Bachelor of Science
An OSSHGD or OSSD and six OACs with a minimum overall average of 60% are

required. A minimum average of 60% in all science and mathematics subjects is required.
For majors in chemistry: English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% in all science and mathematics courses is required.
For majors in geology: English I, calculus, algebra and geometry, and two of biology, chemisty, and physics are required. An average of at least 60% in all science and mathematics courses is required.
For majors in mathematics: English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% is required in all mathematical subjects. Students planning to pursue applied mathematics are advised to take a university entrance-level course in physics.
For majors in physics: English I, calculus, algebra and geometry, and two of biology, chemsitry, and physics are required. An average of at least 60% is required in all science and mathematics courses.
For majors in biology (including pre-medicine, pre-dentistry, pre-optometry): English I, calculus, algebra and geometry, and two of biology, chemistry, and physics are required. An average of at least 60% is required in all science and mathematics courses.

Agricultural and Biological Sciences

• Bachelor of Science

Three-year general/four-year honours
Available in: biology, biotechnology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/Recreation

• Bachelor of Arts

Four-year honours
Available in: drama in education.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Education
Consecutive program, one year in length, to prepare the student for certification to teach in Ontario schools from kindergarten to OAC level.

Admission requirement
An approved degree from an accredited university.

• Bachelor of Human Kinetics
Four years with specialization in applied kinesiology, sports administration, or teaching and coaching. This is a co-operative program. Admission to the co-op stream after the first year of the regular honours program will be based on the final results of courses taken at the Grade 13/OAC level, semester 1 results, and an interview with the co-op co-ordinator.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, with a minimum overall average of 60%. Biology and chemistry are recommended. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

Engineering

• Bachelor of Applied Science
Four years, including one common year followed by three years of specialization in one of: civil, electrical, environmental, geological, industrial, or mechanical engineering. Civil, environmental, industrial, mechanical, and mechanical (materials option) engineering are offered on a co-op basis. Admission to co-op is after the first year, based on marks for that year, secondary school marks, and an interview.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, calculus, algebra and geometry, chemistry, and physics, with a minimum average of 70%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

Fine and Applied Arts

• Bachelor of Arts

Three-year general
Available in: art history, drama, studio art.

Four-year honours
Available in: art history, drama, combined majors with music.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Fine Arts
Four years, with specialization in either acting, music theatre, scenic design, or visual arts.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, with a minimum overall average of 60%. For specialization in acting, a successful audition conducted by the School of Dramatic Art is required; for specialization in music theatre, successful auditions conducted by both the School of Dramatic Art and the School of Music are required; auditions are normally held on specific dates during the spring.

• Bachelor of Music
Four years, with specialization in either history and literature, school music, performance, or an individualized program.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, with a minimum overall average of 60% and an audition by the School of Music, consisting of performance and a written test on music theory.

• Bachelor of Musical Arts
Three years, with wide options in music course selection under the supervision of academic counsellors. Emphasis is on freedom of choice and on designing a program to suit the individual student's interest and background.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, with a minimum overall average of 60%. Applicants for this program must have some musical skills and will be required to demonstrate these skills through a diagnostic examination and performance audition.

Health Professions and Medical Sciences

• Bachelor of Science

Three-year general
Available in: pre-dentistry, pre-medicine, pre-optometry.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

• Bachelor of Science in Nursing
Four years from Grade 13/OAC; three years for candidates with professional nursing qualifications. A one-year diploma program in public health nursing is offered for professional nurses.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, chemistry, and biology. An average of at least 60% in all mathematics and science courses also is required. An interview with the School of Nursing may be required. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

Humanities and Related Courses

• Bachelor of Arts

Three-year general
Available in: Asian studies, classical civilization, comparative literature, English, French, German, Greek, Italian, Latin, multicultural studies, philosophy, religious studies, Russian, Spanish.

Four-year honours
Available in: Asian studies, Canadian studies, classical civilization, comparative literature, English, English literature and creative writing, French language and literature, German, Italian language and literature, Latin American studies, philosophy, religious studies, Spanish language and literature. Greek, Italian, Latin, and

Russian may be studied with one of the above, or with another discipline to complete a combined honours degree.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

Three-year general/four-year honours
Available in: mathematics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Computer Science

Three-year general/four-year honours

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, calculus, and algebra and geometry, with a minimum overall average of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

• Bachelor of Science

Three-year general/four-year honours
Available in: biochemistry, chemistry, general science, geology, mathematics, mathematics and statistics, physics.

Social Sciences and Related Courses

• Bachelor of Arts

Three-year general
Available in: anthropology, communication studies, economics, family studies, geography, history, political science, psychology, sociology, urban studies.

Four-year honours
Available in: anthropology, Canadian studies, communication studies, criminology, economics, geography, geography in resource management, geography in urban studies, history, home economics, international relations, Latin-American studies, political science, political science in urban studies, psychology, public administration, sociology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Commerce
Four years, with emphasis on business and economic affairs and specialization in accounting, administrative studies, business policy and strategy, finance, management science, and marketing.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I and calculus or algebra and geometry, with a minimum overall average of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

• Bachelor of Commerce – Economics
Four years, combining both the core of the Bachelor of Commerce program and the core of the Bachelor of Arts Economics program while allowing the student to use the options to gain additional training in economics.

Admission requirements
An OSSHGD or OSSD and six OACs, including English I, calculus, and algebra and geometry, with a minimum overall average of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

• Bachelor of Laws
Three years, following at least two years of university (a minimum of five years from Grade 13/OAC). Applications should be made to the Faculty of Law, University of Windsor.

• Bachelor of Public Administration
Four years from Grade 13/OAC, with required courses in business administration, economics, law, and political science.

Admission requirements
An OSSHGD or an OSSD and six OACs, including English I, with a minimum overall average of 60%.

• Bachelor of Social Work
Four years from Grade 13.

Admission requirements
An OSSHGD or an OSSD and six OACs, including English I, with a minimum overall average of 60%. Admission to the School of Social Work officially takes place in year 3. At this time, personal qualities and academic qualifications are considered.

Special Programs

• Bachelor of Commerce for University Graduates
A program consisting of 20 courses to supplement a non-business university degree. The program leads to the designation Bachelor of Commerce.

Admission requirements
Applicants must have a bachelor's degree from an accredited university, with a minimum overall average, including any failure, of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

• Certificate Programs
The University of Windsor offers certificate programs in the following: business administration, criminology and criminal justice, gerontology, informational publishing, Japanese studies, labour studies, organizational and career development, personnel management, public administration, religious studies, women's studies.

These 12-credit certificate programs are generally offered on a part-time basis. For further information, contact the Registrar's Office.

Residence
The University of Windsor and its affiliates own and/or operate nine residences for men and women, plus a central food complex to service these residences. Residence fees vary with the plan selected.

Tuition Fees 1988-89
(including incidental fees)
Full-time students per semester *(Note: Fees for first-year international students are in brackets and are listed immediately after regular student fees):*
Arts, science (first year only) $810.25 ($2 698.75)
Business administration $813.50 ($2 702.00)
Education $812.50 ($4 332.50)
Engineering $880.25 ($4 340.25)
Computer science, dramatic arts, human kinetics, music, social work, visual arts $815.25 ($2 703.75)
Law $840.25 ($2 728.75)
Nursing $820.25 ($4 340.25)
Social sciences $812.75 ($2 701.25)
First-year graduate studies $765.50 ($2 590.50)

Further Information
Inquiries about admission requirements should be directed to
Orville Houser
Associate Registrar, Admissions and Records
University of Windsor
Windsor, Ontario N9B 3P4

Inquiries about student awards and loans should be directed to
Mrs. Marie Renaud
Office of Student Awards
University of Windsor
Windsor, Ontario N9B 3P4

For information on other aspects of the university and on university information programs for secondary schools contact
Mr. Joe Saso
Director of Secondary School Liaison
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 973-7014 (call collect within Ontario)

York University

Toronto

President: Harry W. Arthurs

Enrolment 1988-89

	Undergraduate	Graduate
Full-time	21 028	1 742
Part-time	15 971	1 471

Faculties, Schools, and Institutes

Atkinson College
Centre for Atmospheric Chemistry
Centre for Continuing Education
Centre for International and Strategic Studies
Centre for Research in Experimental Space Science
Centre for Research on Environmental Quality
Centre for Research on Latin America and the Caribbean
Centre for the Study of Computers in Education
Faculty of Administrative Studies
Faculty of Arts
Faculty of Education
Faculty of Environmental Studies
Faculty of Fine Arts
Faculty of Graduate Studies
Faculty of Science
Glendon College
Institute for Social Research
Joint Centre for Asia Pacific Studies
LaMarsh Research Program on Violence and Conflict Resolution
Osgoode Hall Law School of York University
Research Centre for Strategic Studies
Robarts Centre for Canadian Studies
York University Transportation Centre

General Admission Requirements

Applicants for admission to the university must have completed a full Grade 13/OAC program certified by the school as appropriate in terms of content and achievement for a university degree program, with standing in all Grade 13/OAC subjects. Students are required to present the OSSD including six OACs. All OACs acceptable to the Ministry of Education will be accepted by York University. See the individual faculty descriptions for specific admissions criteria.

Additional qualifications may be required by each faculty, and applicants should consult the Admissions Office for further information. Students are encouraged to provide the university with any additional information they feel the university ought to consider. For example, York would be interested in hearing about any activities that reflect strong dedication and commitment or demonstrate unusual accomplishment, as well as about extenuating circumstances (such as illness or financial difficulties) that may have affected students' achievement in school.

The OSSHGD will be accepted for university entrance until June 1990. Applicants who are Canadian citizens or permanent residents of Canada and who do not hold the Grade 13/OAC or equivalent requirement in full may request special consideration if they are at least 21 years of age by the first day of classes of the academic session to which admission is being sought. While anyone meeting the age requirement may apply, candidates are expected to satisfy the university that they have a reasonable chance of success in university work and have had no recent unfavourable academic record.

Candidates are advised that holding the published admission requirements means only that they are eligible for selection. In the selection process, the university makes offers of admission to the highest academically qualified candidates. In assessing a candidate for admission, the university considers the overall academic record, the report of the high school, and the results of any additional tests (e.g., Scholastic Aptitute or English Proficiency) as may be required. Applicants to programs with limited enrolment must have academic qualifications considerably higher than the minimum standards.

Applicants residing in Ontario whose first language is not English and who have studied for four years or less in a Canadian secondary school will be required to write the York University Evaluation of English Proficiency. Information will be forwarded upon receipt of an application.

Bachelor of Arts

To be eligible for admission, Faculty of Arts applicants must achieve a minimum overall average of 70% in six Grade 13/OAC credits. Students presenting the OSSD must include an OAC in English plus one additional OAC credit from the following categories: classical studies, *français*, French as a second language, geography, history, mathematics, a modern language. See *General Admission Requirements*, above.

The Faculty of Arts at the York campus offers programs of study leading to the Bachelor of Arts degree at the ordinary and honours levels, on a full- or part-time basis. Degrees may be taken in the traditional disciplines, in interdisciplinary (thematic) studies, and in individualized studies.

Student are introduced to the Faculty of Arts through a balance of disciplinary and interdisciplinary courses. Within the first seven courses (a normal full-time program consists of five courses per year), students examine two interdisciplinary areas: humanities or social science and natural science. (Students will also be required to take a further interdisciplinary course at the upper level). As well, students may take a college course (maximum 20 students per class), allowing for experience with the small seminar setting. Students may take up to three disciplinary courses in their first year and have the option of declaring a major subject either in the first or second year of study. Electives may be selected from courses offered by other faculties at York.

The Faculty of Arts offers ordinary (15 courses – normally three years) and honours (20 courses – normally four years) programs of study. Options for these programs are listed under specific subject areas.

In addition, interdisciplinary studies programs are offered in honours. These programs are also listed under specific subject areas.

In an ordinary program, students take five courses in their major and select their remaining courses in accordance with the requirements of the Faculty of Arts and their own interests.

In an honours program, students pursue their studies within one of the following five formats:

a) specialized honours – students specialize in one subject by taking at least nine courses in their major program;
b) honours (double major) – students elect to major in two subjects, taking seven courses in the first major and seven in the second;
c) honours – students take at least seven courses in one major subject;
d) honours (major/minor), students take at least seven courses in the major subject and five courses in the honours minor;
e) specialized honours: individualized studies – students take a course of study designed around a theme or problem that interests them. These programs are planned by the student in consultation with a faculty adviser.

Bachelor of Science

Applicants for admission to the honours and ordinary B.Sc. programs in the Faculty of Science must present six Grade 13/OAC credits, including chemistry, physics, and two credits in mathematics at the Grade 13/OAC level. Finite mathematics, while acceptable as one of the six OACs, cannot replace one of the recommended mathematics courses.

Both specialized honours programs (120 credits minimum) and ordinary programs (90 credits minimum) are offered. Options for these programs are listed under specific subject areas.

Combined honours programs (120 credits minimum), in which the student may choose to major in a combination of two subjects, are available.

An honours science program (120 credits minimum), without specialization, is also offered. Diplomas are offered in operations research, and certificates are offered in meteorology, coaching, advanced coaching,

fitness assessment and exercise counselling.

Agricultural and Biological Sciences

• Bachelor of Science

Ordinary or honours
Available in: biology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Education/Physical Education/Recreation

• Bachelor of Arts or Bachelor of Science

Honours
Available in: physical education. Certificates are available in coaching, advanced coaching, fitness assessment and exercise counselling, and sports administration.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts" or "Bachelor of Science".

• Bachelor of Education
York's Faculty of Education offers a concurrent program in which students pursue their academic and professional studies simultaneously. Students co-register in the Faculty of Education and in the Faculty of Arts, Science, or Fine Arts, or in Atkinson College or Glendon College. In other words, students work toward a B.A., B.Sc., or B.F.A. degree while at the same time working toward a B.Ed. degree. With co-registration, an extra year is added to the normal length of the academic degree. Consequently, an ordinary degree (B.A./B.Ed., B.Sc./B.Ed., B.F.A./B.Ed.) takes four years; an honours degree takes five years. Further teacher training is not necessary upon graduation.

During the first year of academic study at York (or equivalent), students may apply to co-register in one of the following programs in the Faculty of Education: primary-junior, junior-intermediate, intermediate-senior.

Admission is based on university grade point average, interviews, education-related experience, reference letters, and a written admissions questionnaire.

Successful completion of any one of the combined B.A./B.Ed., B.Sc./B.Ed., or B.F.A./B.Ed. programs leads to recommendation for certification in Ontario as an elementary or secondary school teacher. York also offers a ten-month consecutive teacher education program for candidates who hold a recognized university degree.

Engineering and Applied Sciences

• Bachelor of Science

Ordinary or honours
Available in: applied computational and mathematical science.

Honours
Available in: earth and atmospheric science, space science and data communications (pending approval).

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Fine and Applied Arts

• Bachelor of Fine Arts and Bachelor of Arts in the Faculty of Fine Arts
The Faculty of Fine Arts offers a four-year honours program with specialized honours and general honours programs. Specialization occurs in the following areas:
Department of Dance – performance, choreography, notation, criticism, teaching, dance therapy, history;
Department of Film/Video – film and video production, film studies, historical and theoretical studies, screenwriting;
Program in Fine Arts Studies – general honours or creative writing;
Department of Music – jazz, performance, composition, electronic music, ethnomusicology, history, theory, classical and contemporary music, instrumentation, and arranging;
Department of Theatre – performance, production and design, drama studies, directing;
Department of Visual Arts – studio art (painting, sculpture, printmaking, design, drawing, graphics, interdisciplinary studio, photography), art history.

Evaluation procedure
In addition to the regular requirements for admission to the university, the Faculty of Fine Arts requires an evaluation of an applicant's suitability for any of its departments. The requirements for each department are detailed in the York University undergraduate calendar. It is the applicant's responsibility to make an appointment for evaluation. Applicants from Ontario who reside some distance from Toronto should note that the Faculty of Fine Arts holds auditions in selected cities across Canada and accepts evaluations by mail. Applicants will be advised of the locations and dates of these evaluations.

Requirements for admission to the Faculty of Fine Arts
Students may select any six Grade 13/OAC subjects deemed acceptable by their school for the purpose of entrance to the university, with a minimum overall average of 70%; an OAC English is recommended. Applicants will also be required to offer appropriate evidence of aptitude or achievement by satisfying the evaluation procedure for the department to which application is intended.

Applicants of any age who do not hold the full Grade 13/OAC or equivalent requirements may request special consideration if they can show evidence of high achievement in one or more of the several arts, and if they can satisfy the Senate Committee on Admissions and the Faculty of Fine Arts that they have a reasonable chance of success in both the academic and the professional portions of the university program of their choice.

Humanities and Related Courses

• Bachelor of Arts

Ordinary or honours
Available in: classics, English, French, German, Greek, humanities, Italian, Latin, linguistics, philosophy, Russian, Spanish.

Honours
Available in: creative writing.

Honours interdisciplinary programs
Available in: individualized studies, mass communications, religious studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

Mathematical and Physical Sciences

• Bachelor of Arts

Ordinary or honours
Available in: computer science, mathematics, mathematics for commerce.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Science

Ordinary or honours
Available in: chemistry, computer science, geography, mathematics, physics.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Social Sciences and Related Courses

• Bachelor of Arts

Ordinary or honours
Available in: anthropology, economics, geography, history, political science, psychology, sociology.

Honours
Available in: economics and business, public policy and administration.

Honours interdisciplinary programs
Available in: African studies, Canadian studies, classical studies, East Asian studies, health and society, Latin American and Caribbean studies, labour studies, law and society, social and political thought, urban studies, and women's studies.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts".

• Bachelor of Business Administration in the Faculty of Administrative Studies
A four-year honours undergraduate program. Students enter the program after two years of undergraduate study and complete their third and fourth years of study in the Faculty of Administrative Studies. Transfer to the Faculty of Administrative Studies may be from the Faculty of Arts, Faculty of Science, Glendon College, or another university.

Admission requirements
To enter the program, students must complete two years of university study beyond Grade 13/OAC or the equivalent. Within these two years of study, students must complete one full-year university course in calculus, computer science, economics, and statistics.

• Bachelor of Law at Osgoode Hall Law School

Admission requirements
Candidates for this program must have successfully completed either three years of an approved university degree course following Grade 12 or two years of an approved university degree course following Grade 13, or have been awarded a degree in an approved program from a recognized university, and have satisfied all other requirements that may be prescribed. Candidates must submit a Law School Admissions Test score.

• Bachelor of Science

Ordinary or honours
Available in: psychology.

Admission requirements
See *General Admission Requirements*, "Bachelor of Science".

Special Programs

• Early Childhood Education – Joint Program York/Seneca

Four years
Bachelor of Arts (York) and Diploma in Early Childhood Education (Seneca).

Admission requirements
Applicants must have 10 full university courses, including introduction to psychology, developmental psychology, and at least one more half-course in psychology. They must have fulfilled the general educational requirements of York University, complete an admissions questionnaire, and attend an interview.

• Rehabilitation Services – Joint Program York/Seneca

Four years
Bachelor of Arts (York) and Diploma in Rehabilitation Services (Seneca).

Admission requirements
Applicants must have 10 full university courses, including introduction to psychology, and meet the general educational requirements of York University. Students should also have experience working with persons with disabilities.

• Part-Time Daytime Studies
Each of the faculties, other than the Faculty of Administrative Studies and the Faculty of Law, offers the opportunity for students to pursue studies on a part-time daytime basis.

Applicants should request, from the Admissions Office, information regarding the regulations pertaining to part-time studies in each faculty.

• Winter-Summer Session
The Faculty of Arts, Glendon College, and the Faculty of Science offer, as an alternative, a winter-summer session for first-year students. Entering students may commence their studies in February and complete their first academic session the end of June. A full range of introductory courses is offered. Call (416) 736-5000 for a winter/summer brochure.

Admission requirements
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

• Atkinson College
Atkinson College, the part-time evening faculty at York University, offers courses leading to four undergraduate degrees: Bachelor of Arts degree (both ordinary and honours), the Bachelor of Science degree (ordinary), the Bachelor of Administrative Studies (ordinary and honours), and the Bachelor of Social Work degree (honours). In addition to the customary arts program, there are programs in Canadian studies, fine arts/creative arts studies (music, theatre, film, visual arts), humanities, liberal studies (classical studies, communication studies, conservation and environmental studies, East Asian studies, individualized liberal studies, science, technology and society, social and political thought, and women's studies), social science, and urban studies. People who do not have an OSSHGD or OSSD but who are over 21 years of age may apply for admission to Atkinson College. The college operates on a course-credit, rather than yearly, system. In summer, courses are offered during the day as well as in the evening. Courses are the equivalent of regular daytime courses, although not necessarily identical to them, and are given mainly by the full-time Atkinson faculty. Classes are held on both the York and Glendon campuses of the university. For further information about Atkinson College contact:

Atkinson College
York University
4700 Keele St.
North York, Ontario
M3J 1P3
Telephone (416) 736-5222

Residence 1988-89
Approximate fees (including meals)
Double rooms $3 021
Single rooms $3 350
Only a limited number of single rooms are available to first-year students.
Fees are subject to change without notice.

Tuition fees 1988-89
(excluding incidental fees)
Full-time Canadian and landed immigrant students $1 665
Part-time studies $333 per full-year course (Canadian and landed immigrant students)
Fees for full-time new international students are $5 445.
Tuition fees are subject to change without notice.

Further Information
Information and campus visits:
Liaison Office
Suite B,
West Office Building
Telephone (416) 736-5100

Inquiries about admission requirements should be addressed to
Mr. J.A.S. McNeil
Director of Admissions
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5100

For information about financial aid, please contact
Ms. Elizabeth Rudyk
Director of Financial Aid
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5006

Admissions/Liaison
Dyanne B. Gibson
Associate Director of Admissions
Debra Glass, Schools Liaison/Publications Co-ordinator
Penny Bissett, Liaison Officer, New Initiatives
Lucy Fromowitz, On-Campus Co-ordinator
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5100

Glendon College

Principal: Roseann Runte

Glendon College offers a bilingual (English-French) program emphasizing the liberal arts. Students at Glendon may study toward a Bachelor of Arts degree: The B.A. honours (20 courses) or the B.A. ordinary (15 courses). In addition to choosing the Bachelor of Arts degree available at

Glendon, students interested in teaching may co-register (complete two degrees simultaneously) in the Faculty of Education, taking courses toward both the Bachelor of Arts (B.A.) and the Bachelor of Education (B.Ed.) degrees on the Glendon campus.

Glendon also offers students the preparatory courses required by York University's business school (Faculty of Administrative Studies) and the law faculty (Osgoode Hall Law School).

The college's commitment to bilingualism enables students to take courses in both English and French in all subject areas. Successful completion of a course in the student's second language at the second-year level is required for graduation from any Glendon program. Language training courses are available at all levels; students may come to Glendon with some previous language training, or fully bilingual, and find courses designed to develop their language skills. In addition, students are encouraged to take part in the bilingual, social and cultural life of the college.

Programs Offered

• Bachelor of Arts (B.A.) – three or four years

The college offers students a full range of programs in the humanities and social sciences. Interdisciplinary programs such as Canadian, international, or multidisciplinary studies allow students to design their own pattern of courses, using a variety of disciplines or approaches.

Glendon also offers a degree program in translation. Students interested in pursuing a B.A. honours degree in translation at Glendon must first complete a first year (five full courses or the equivalent) of general university studies. Only a limited number of students are accepted to this program, and an entrance examination takes place each April.

Glendon students may choose to do some courses outside the Glendon faculty, in various other faculties on the York campus. Students with high competence in French may apply to take the third year of a four-year program in a French-language university in Quebec or France.

Admission requirements

Applicants must complete six Grade 13/OAC subjects deemed acceptable by their school for the purpose of entrance to the university. Those presenting the OSSD should include an OAC credit in English/French, *français*.

English-speaking applicants should have at least 60% in Grade 12 or 13/OAC French (or equivalent), but some places are available in French-language courses for which little or no previous preparation in French is required. Students who have no background in French or English will be required to take additional French- or English-language courses to fulfil Glendon's degree requirements.

Residences

Glendon College has two residences that accommodate about 400 students. Each residence is divided into houses; some houses are for men or women exclusively, while others are co-ed. Glendon can accommodate a percentage of first-year students in single rooms. Students wishing single-room accommodation must submit their application form and deposit by the end of June or early July.

Approximate residence fees 1988-89
(including meals)
Single room $3 350
Double room $3 021
Fees are subject to change without notice.

Visits and Further Information

The Glendon Liaison Office will arrange individual, class, or group tours of the college in English or in French, upon request. An appointment with an academic counsellor can be made to discuss course, program, or career choices.

For application forms or additional information please write or phone:
Julie Parna-Steif, or Joanne Pesaro, or
Maurice Heroux
Glendon College
2275 Bayview Ave.
Toronto, Ontario
M4N 3M6
Telephone (416) 487-6710

Teacher Education

General information concerning courses offered and admission requirements appears below. For further information and application forms for admission, applicants should write to the faculty, school, or college of education of their choice.

• How to Qualify as a Teacher for Ontario Schools

Students wishing to prepare themselves for a teaching career may apply for admission to a faculty, school, or college of education if they have the necessary qualifications.

The faculties, schools, or colleges of education at Brock University, Lakehead University, Nipissing College (Laurentian University), the University of Ottawa, Queen's University, the University of Toronto, the University of Western Ontario, the University of Windsor, and York University offer courses for students who wish to qualify as school teachers in English-language schools.

In addition, the Faculty of Education at the University of Ottawa and the School of Education at Laurentian University provide teacher education programs for those who wish to teach in schools or classes having French as the language of instruction.

Courses and Admission Requirements

For admission in September 1990 to courses leading to certification as a school teacher, the requirements stated below for faculties, schools, or colleges of education will be in effect.

Courses for Teaching in English-Language Schools

Basic one-year course

Applicants for September 1990 admission to one-year programs leading to teacher certification for English-language and French-language schools in Ontario will be required to submit evidence of successful completion of an approved university degree in arts or science, or a degree deemed equivalent.

Admission to University Faculties, Colleges, or Schools of Education

To be eligible for an Ontario Teacher's Certificate, applicants wishing to pursue a course in teacher education offered by the faculty or college of education of a university must meet the admission requirements of that institution and must successfully complete an approved academic degree program in arts or science, in addition to completing a year of professional training. (For details of admission requirements for degree programs, see the previous sections on specific universities.)

For admission requirements for teacher certification valid in French-language

schools or classes, applicants should write to the admissions officer at the School of Education, Laurentian University or at the Faculty of Education, University of Ottawa.

Applicants who wish to enrol at a university offering a program in professional education for prospective teachers should write to the admissions officer or to the dean of the faculty or college of education of the particular university for information regarding admission requirements and courses.

Teachers of Technological Subjects
To become qualified to teach technological subjects, candidates must show evidence of at least Grade 12 or equivalent standing and approved, practical, wage-earning experience in a skilled trade directly related to the specialized subject field.

Detailed information regarding minimum admission qualifications, available courses, professional experience required, and course content is available from the following sources:
Chairman
Technical and Industrial Arts Department
Faculty of Education
University of Toronto
371 Bloor St. W.
Toronto, Ontario M5S 2R7

Associate Registrar
Faculty of Education
The University of Western Ontario
1137 Western Rd.
London, Ontario N6G 1G7

Co-ordinator of Technical Education
Faculty of Education
Queen's University
Kingston, Ontario K7L 3N6

For information on the summer program contact
Director of Teacher Education
Faculty of Education
University of Ottawa
René-Lamoureux Hall
651 Cumberland St.
Ottawa, Ontario K1N 6N5

Teachers of Special Subjects
In addition to the basic academic and technological studies qualifications required in secondary schools, additonal qualifications are required for teaching certain special subjects that demand specialized knowledge, training, or experience.

Information regarding qualifications for the teaching of special subjects such as art, guidance, industrial arts, library, music, physical and health education, and special education is available from
Centre for Teacher Education
13th Floor, Mowat Block
Toronto, Ontario M7A 1L2
Telephone (416) 965-0383

Fees
Tuition and other fees vary, depending on the institution. Consult the appropriate section in this publication or contact the institution concerned.

Financial Aid
Assistance based on financial need and students' actual costs is available under the Ontario Student Assistance Program. See the introductory section, *Financial Assistance for Students*, for details. Further information on financial aid is available from the Financial Aid Administrator of the university to which the student is applying.

Living Accommodation
Student teachers attending a university away from home can obtain from the housing bureau of the university a list of convenient boarding houses. For residence accommodation at university, students who are interested in living on campus should apply early. (See introductory section, *Students' Costs*, for details.)

Application for Admission

Concurrent Programs
For admission to a concurrent program (an education program taken along with the first degree), apply through the Ontario Universities' Application Centre.

Consecutive Programs
Ontario universities offering teacher education in a consecutive program (a program taken after completion of the first degree) have a common application form that offers a candidate three choices of university on the same form; however, a candidate may submit only one application form. These forms may be obtained from any of the universities listed below. Application forms are also available from the Admissions Office at all of the other Ontario universities.

Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1

Assistant Registrar, Admissions
Lakehead University
Thunder Bay, Ontario P7B 5E1

Admissions Officer
Laurentian University
Sudbury, Ontario P3E 2C6

Office of the Registrar
Nipissing College
College Education Centre
Box 5002
North Bay, Ontario P1B 8L7

Office of the Registrar
Admissions Section
University of Ottawa
550 Cumberland St.
Ottawa, Ontario K1N 6N5

Service du registraire
Section de l'admission
Université d'Ottawa
550, rue Cumberland
Ottawa (Ontario) K1N 6N5

The Registrar
Faculty of Education
Queen's University
Kingston, Ontario K7L 3N6

The Registrar
Faculty of Education
University of Toronto
371 Bloor St. W.
Toronto, Ontario M5S 2R7

Student Services – Admissions
Faculty of Education
University of Western Ontario
1137 Western Rd.
London, Ontario N6G 1G7

Office of the Registrar
Faculty of Education
University of Windsor
600 Third Concession Rd.
Windsor, Ontario N9B 3P4

Office of Student Programs
Faculty of Education
York University
4700 Keele St.
North York, Ontario M3J 1P3

Centralia College of Agricultural Technology

Huron Park

Director: W.R. Allen

Centralia College, located 50 kilometres north of London, offers two-year post-secondary courses in agricultural business management, animal health technology, and food service management, as well as continuing education courses for farmers, agribusiness, food service, and animal health personnel.

Enrolment 1988-89

Diploma	200
Continuing Education	1 600

Admission Requirements
Diploma course applicants require an OSSGD or equivalent, including successful completion of Grade 12 English at the general or advanced level. Additional requirements are noted in the following course descriptions. Candidates for certificate courses must be 17 years of age or older, have completed Grade 8 or the equivalent, and have been out of school for at least one full year. A personal interview is also required. Mature and international applicants will be assessed on an individual basis.

Diploma Courses
(September to April term)

• Agricultural Business Management
This course offers training to people intending to operate and manage their own or an employer's farm. Excellent job opportunities also exist in the agricultural supplies and services industry and in government. Course emphasis is placed on management of the agricultural businesses, especially farms. A full-year farm analysis project gives students extensive experience in analysing selected commercial farms in the area. Students may focus their study on areas of particular interest through the selection of elective subjects in second year. Preference is given to applicants who have commercial agricultural experience.

• Animal Health Technology
This course is designed to train animal health technicians to assist veterinarians in private practice. The study of farm animals is an important part of the curriculum. Practical experience for students is provided, both at the college and in the field, in co-operation with practising veterinarians and farmers in the surrounding area. The course is accredited by the Canadian Veterinary Medical Association.Applicants must have the OSSGD. Preference will be given to applicants who have Grade 12 credits in chemistry, another science (biology preferred), mathematics, English, and twoother subjects (all at the advanced level). A letter of reference, verifying a minimum of 40 hours of suitable work experience with a practising veterinarian, is required. Enrolment is limited, and preference is given to residents of Ontario. Applications are due February 1. Candidates who meet the admission requirements will be invited to the college for an interview.

• Food Service Management
This course is approved by the Ontario Dietetic Association, and graduates are eligible for immediate membership in the Canadian and Ontario Food Service Supervisors' Associations.

A combination of academic subjects and practical experience pertaining to food service management prepares students for challenging careers as supervisors or managers in the food industry. Students are required to gain a minimum of eight weeks of food service experience between the first and second years. Towards the end of the second year, students are required to complete six weeks of training at the supervisory level in a health-care institution or hospitality establishment, under the guidance of trained personnel.

Employment opportunities are currently expanding in health-care, institutional, and hospitality food service as employers recognize the need to hire graduates knowledgeable about the organization and function of the food industry.

For entry into the program, applicants should have credit in Grade 12 English and mathematics, and either Grade 12 chemistry or Grade 11 biology.

Residence 1988-89
Residence accommodation is available for up to 385 full-time diploma students in two modern dormitories. Accommodation and 14 meals per week costs approximately $1 200 for the college year.

Tuition Fees
Tuition per year $396 (Canadian students); $792 (international students).

The total cost per year, including tuition, residence, meals, books, and miscellaneous expenses, is between $2 000 and $2 500, depending on the diploma program.

Financial Assistance
Bursaries, scholarships, and other financial awards are offered by various organizations and municipalities. Students are also eligible for assistance from the Ontario Student Assistance Program.

Further Information
For further information, please contact
Director
Centralia College of Agricultural Technology
Huron Park, Ontario N0M 1Y0
Telephone (519) 228-6691

Kemptville College of Agricultural Technology

Kemptville

Principal: John D. Curtis

Postsecondary courses leading to diplomas in agricultural journalism, dairy cattle production and management, field crops and livestock production and management, horticultural production and management, and food service management are offered at the Kemptville College of Agricultural Technology.

Enrolment 1988-89

Total	218

Admission Requirements
The OSSGD or equivalent is required, including successful completion of Grade 12 English and mathematics (general or advanced level). Applicants unable to meet the English or mathematics requirement but who have a good academic record will be considered. Consideration is given to mature students. Mature students may register for credit as full-time students or as part-time students taking individual courses.

Agricultural experience is recommended for all students registering in agriculture.

Diploma Courses
The academic year at Kemptville is divided into two semesters, and the programs are two years in length. Semesters begin in September and January, and each semester is a prerequisite for the next.

• Dairy Cattle Production and Management
This program concentrates on the needs of Ontario's dairy industry. It is strongly recommended for those students who are returning to a dairy enterprise or who wish employment in agri-business firms that service the dairy industry.

• Field Crops and Livestock Production and Management
The course material for this program in the junior year is similar to that of the dairy cattle program. In the senior year the emphasis is on non-dairy animals, particularly swine and beef-cattle. This program is oriented towards students who are more interested in the cash crop and/or market livestock type of enterprise, either from the producer or service business viewpoint.

• Horticultural Production and Management
Students in this program are introduced to principles of horticulture that apply primarily to horticultural crops, especially fruits and vegetables. Concepts of ornamental horticulture are introduced but are not a major part of the program.

• Food Service Management
This program, which may be completed in four semesters, concentrates on subject areas in the food service industry related to the health care field. The course, approved by the Ontario Dietetic Association, qualifies graduates for immediate membership in the Canadian Food Service Supervisors' Association. Mature students may register for credit as full-time students or as part-time students taking individual subjects.

• Agricultural Journalism
This two-year program trains students for positions with newspapers and other media and for work as communications and public relations officers in the agricultural industry. Year 1 consists of concentration of agricultural courses, giving students a background that will enable them to provide an accurate analysis of agricultural problems. Year 2 of the program transfers into the print journalism program at Loyalist College of Applied Arts and Technology in Belleville.

• Certificate Courses
Agricultural welder fitter, farm equipment mechanic, dairy herdworker, farrier (horseshoeing), bulk tank milk grader, milk and cream grader, milk and cream tester, dairy plant worker (specialization in cheesemaking, buttermaking, ice cream making, or fluid milk processing), and level 1 equestrian coaching and riding development.

• Apprenticeship Courses
Farm equipment mechanics apprenticeship.

• Community Programs
A wide variety of courses, seminars, workshops, and conferences are offered in response to the needs of the agricultural and food industry. Further information may be obtained by contacting the Continuing Education Section at the college.

Living Accommodation
The Kemptville College of Agricultural Technology will provide accommodation for most full-time students wishing to live on campus.

Financial Assistance
A number of bursaries are offered by charitable organizations, municipalities, and individuals to deserving students. Special awards, scholarships, and prizes amounting to several thousands of dollars are generously donated by benefactors each year. Students may also apply for grant/loan assistance from the Ontario Student Assistance Program. For details see the introductory section, *Financial Assistance for Students.*

Tuition Fees
Canadian students per semester $220
International students per semester $440
Room and meals, student activity fees, books, and miscellaneous expenses bring the total to about $875 to $1 000 per semester.

Further Information
Inquiries should be addressed to
Registrar
Kemptville College of Agricultural Technology
Kemptville, Ontario K0G 1J0
Telephone (613) 258-8335

New Liskeard College of Agricultural Technology

New Liskeard

Principal: D. Beattie

The college is located in Northeastern Ontario at New Liskeard, 160 kilometres north of North Bay. New Liskeard is situated in the most intensive livestock and cash-crop farming area in Northern Ontario. The college has excellent educational and residence facilities. Extensive livestock and crop facilities on the college farms are used for practical training.

Enrolment 1988-89
Total 65

Admission Requirements
Diploma courses require the OSSD or equivalent for admission. English, mathematics, and science are desirable.

A certificate course is available to students who cannot meet the requirements for admission to the diploma programs. Applicants will be considered on individual merit.

Mature students, 19 years of age or older, will be considered for diploma or certificate programs on the basis of their background and experience.

Diploma Courses
Diploma courses are of two years' duration, with two semesters each year. Courses involve a combination of lectures and laboratory periods.

• Dairy Technology
This program is designed for students intending to follow a career in dairy farming or to seek employment in the dairy industry. It covers all aspects of profitable dairy heard management, with a practical hands-on approach to provide a thorough understanding of all aspects of production.

• Livestock Technology
This program provides taining and education in the production and management of beef cattle, sheep, and swine. Students may take some dairy management courses. Practical training in the college research barns is an integral part of this program. The program is designed to give students a broad-based training in all aspects of livestock and crop production, with a heavy emphasis on management.

• Equine Technology
This program allows students to specialize in the management of horse enterprises. It also prepares students to meet the requirements for certification as qualified level 1 instructors by the Canadian Equestrian Federation.

Certificate Course
A two-year certificate in agricultural production techniques is offered as a practical alternative for students who do not qualify for the diploma program. Certificate students take a reduced academic course load and spend a considerable amount of time in hands-on training.

Financial Assistance
Bursaries and awards are offered by various organizations to qualifying students on the basis of academic performance. Students may also apply for grant or loan assistance through the Ontario Student Assistance Program.

Tuition Fees
Canadian students $440 per year; international students $880 per year. Total fees for residence, including 14 meals per week, books, travel, and student activiites, are approximately $2 000 per year.

Further Information
Please address further inquiries to:
Principal
New Liskeard College of Agricultural Technology
Box G
New Liskeard, Ontario P0J 1P0
Telephone (705) 647-6738

Ridgetown College of Agricultural Technology

Ridgetown

Director: D.W. Taylor

Ridgetown is midway between London and Windsor, in the centre of the agricultural and agribusiness area of western Ontario. It has facilities for teaching, research, and demonstration in all aspects of modern agribusiness and production technology. Also located on the 182 hectare (450 acre) research and demonstration site are a student residence, cafeteria, and recreational facilities.

Enrolment 1988-89

Two-year diploma	200
Three-year co-op diploma	20

Admission Requirements
Certificate program applicants should be 18 years of age or have completed the requirements for an OSSGD.

Two-year diploma program applicants should have 30 credits (most at the general or advanced level) sufficient to have earned an OSSGD or equivalent. Preference will be given to candidates with Grade 12 English and mathematics (general or advanced level).

Three-year co-op diploma program applicants may apply either after the successful completion of term 1 from any college of agricultural technology, or for direct entry into year 3 after graduation from a two-year diploma program at any college of agricultural technology.

Mature student applicants must be 19 years of age and have been out of school for at least two years.

Part-time student applicants may take courses in any programs on a part-time basis for either audit or credit purposes.

International student applicants must successfully write the Test of English as a Foreign Language examination in their home country before applying for admission. Details of these tests may be obtained by writing: College Entrance Examination Board, Box 6155, Princeton, New Jersey, U.S.A. 08541-6155.

Certificate Program

• Agricultural Machinery Maintenance and Operation
This course provides hands-on, skill-oriented training in the maintenance and operation of agricultural machinery and equipment.

Diploma Courses
The academic year at Ridgetown is divided into two terms, beginning in September and January. Co-op work terms are also required for some two-year and the three-year diploma programs. Placements are arranged and supervised by the college

• Agribusiness Management
This program equips students for a very wide range of "off-the-farm" careers in agribusiness, including sales, marketing, technical, advisory, and management positions in the feed, seed, grain, equipment, fertilizer, food processing, and farm supply industries. There is a mandatory work-term requirement between year 1 and year 2.

• Field Crop Production
This program provides in-depth technical training for students who intend to manage farming enterprises dealing mainly with all types of cash crops.

• Fruit and Vegetable Production
This program provides training for students who intend to manage commercial fruit and vegetable operations, to work with processing companies as fieldmen, or to work with specialized supply and equipment firms.

• Livestock Production
This program provides training for students who intend to manage farming enterprises dealing manily with dairy, beef, swine, poultry, or sheep production, as well as related supply and processing industries. There is a mandatory work-term requirement between year 1 and year 2.

• Ornamental Horticulture
This program provides in-depth technical skills training for students in the landscaping, floriculture, nursery, and lawn care industries. Students are equipped to work for established companies or to run their own business.

• Quality Control Laboratory
This program equips students to work in a wide range of quality control and research applications in agribusiness and food processing.

Three-Year Co-op diploma
The elevator/farm supply specialization provides more advanced technical training for students interested in sales and managerial careers in the grain elevator/farm supply industry. Co-op work terms between academic years 1, 2, and 3 are required.

Financial Assistance
A number of bursaries, ranging from $250 to $600 each, are awarded annually to students requiring financial assistance. In addition, almost $10 000 is made available by special county awards, service club donations, and memorial and scholastic awards and prizes. Students may also apply for grant/loan assistance from the Ontario Student Assistance Program. Loans are also available from the J. Harold Willson Student Loan Fund. See the introductory section of this publication, *Financial Assistance for Students*.

Living Accommodation
Students live on campus in Steckley Hall.

Fees
Tuition is approximately $230 per term. Room and 14 meals per week, student activities fees, books, tuition, and miscellaneous expenses amount to $1 520 per year.

Tuition fees for those without Canadian citizenship or landed immigrant status are $460 per term.

Further Information
Please address further inquiries to
Director
Ridgetown College of Agricultural Technology
Ridgetown, Ontario N0P 2C0
Telephone (519) 674-5456

Canadian Coast Guard College

Sydney, N.S.

Ministry of Transport

The Canadian Coast Guard College in Sydney, Nova Scotia, offers excellent training and career opportunities to men and women who have a desire for a seafaring life and want to see more of, and learn more about, Canada. The college's aim is to produce professionally competent coast guard officers who have an understanding of modern leadership and management.

Graduate officers may serve aboard powerful ice-breakers, in search and rescue craft, aboard cable-laying vessels, or in the lighthouse and buoy-tending vessels that constantly travel Canada's shipping lanes to ensure that the nation's marine commerce moves in safety. The fleet has more than 60 vessels of sea-going size and includes some of the most modern ships of their type in the world.

Enrolment
42 officer-cadets

Training
The college training course commences in August and includes mathematics, physics, marine law, mechanical training, electrotechnology, computer science, and other fields related to shipping, as well as courses directly concerned with the ship's deck or engine-room operation. The training period (the length of which is subject to change) is divided into several phases for both courses:
Navigation cadet
- 12 months at the college
- 7 months at sea
- 9 months at the college
- 8 months at sea
- 9 months at the college

Marine engineering cadet
- 16 months at the college
- 4 months at sea
- 12 months at the college
- 5 months at sea
- 8 months at the college

Strong emphasis is placed on acquiring a working knowledge of both official languages so that graduates will be able to serve aboard vessels anywhere in Canada upon completion of their training.

Applicants must be prepared to serve as officers in the Canadian Coast Guard at sea for a period of four consecutive years immediately after graduation from the college.

Admission Requirements
Applicants must be Canadian citizens or have landed immigrant status; however, all qualified Canadian citizens will be accepted before any applicant holding only landed immigrant status. A pre-employment medical and an eyesight examination are required.

The normal deadline for requesting the entry package is January 31 of the year of entry. February 28 is the deadline for the college's receipt of documents (the postmark is the proof of date).

Applicants must have completed university preparatory courses in the following subjects: mathematics, physics, French, English, and chemistry, and must be graduates of Grade 13 (Ontario), CEGEP 1 (Quebec), or Grade 12 (other provinces and territories). Applications will be accepted from candidates who expect to satisfy these requirements by June of the entry year. Candidates attending courses to be finished in the year of entry are to submit a preliminary mark or evaluation for these courses to the registrar's office by February 28. Any offer of acceptance made in such a case will be conditional, subject to proof of having successfully completed all of the academic requirements.

For specific details relating to the educational system of each province, applicants should contact the registrar.

Note: No facilities are available for married officer cadets. Given the intensity of the training program, cadets are advised not to consider marriage while at the college.

Benefits
Cadets receive a monthly allowance ($180-$220) while attending college. Sea training allowances will increase the total allowance to $14 000 over the length of the program. Upon joining, cadets receive travelling expenses from home to college. Return travelling expenses are covered, after the first $25, from the college to home once yearly, at Christmas, by the most economical means.

Cadets receive free uniform issue, books, and board and lodging. They are covered by government Workers' Compensation and are eligible to participate in the Public Service Superannuation Plan, group surgical-medical provision, and many other benefits.

Physical Education
The college has a physical education program under the direction of qualified instructors.

Further Information
Requests for the application package and information concerning the Canadian Coast Guard College should be directed to
The Registrar
Canadian Coast Guard College
Box 3000
Sydney, Nova Scotia B1P 6K7

Canadian Memorial Chiropractic College

Toronto

Founded in 1945, the Canadian Memorial Chiropractic College is a non-profit, professionally owned institution of higher learning providing modern facilities including classrooms, laboratories (including a fully equipped anatomy laboratory), an auditorium, two teaching clinics, and a fully equipped X-ray department with instructional X-ray facilities. The course of study covers four years of approximately 4 428 hours, including basic sciences, chiropractic sciences, and clinic training including internship. The program leads to graduation with the Doctor of Chiropractic diploma.

Enrolment 1988-89
Full-time 577

Admission Requirements
A candidate for admission must have completed Ontario Grade 13 or have the equivalent standing as determined by the Ontario Ministry of Education. In addition, candidates must have completed two academic years at a university in Canada or equivalent (10 credits, 60 semester hours) and have standing in prerequisite courses in biology, general chemistry, organic chemistry, psychology, and physics. Candidates from the province of Quebec must have a minimum of two years of study in the Colleges of General and Professional Education (CEGEP) plus one year of university. Applicants in doubt about their qualifications are advised to submit their references and academic records to the registrar for evaluation and consideration.

Financial Assistance
Several admission scholarships, bursaries, and in-course awards are available. Further information may be obtained from the college calendar or the registrar.

Ontario students may also be eligible for assistance on the basis of assessed need under the terms of the Ontario Student Assistance Program. Students from other Canadian provinces should contact their provincial government for information on financial aid.

Living Accommodation
Although the college does not maintain residence accommodation, a housing service is available through the Office of Student Services to help students find private accommodation near the college.

Tuition Fees
1988-89: $6 600 (not including incidental expenses of $210).
Tuition fees for students from Quebec and for students from outside Canada are $8 300 (not including incidental expenses of $210). First-year students are required to pay application, interview, and registration fees totalling $480 ($250 of which is applied to tuition fees).

Further Information
For further information, please contact
Registrar
Canadian Memorial Chiropractic College
1900 Bayview Ave.
Toronto, Ontario M4G 3E6
Telephone (416) 482-2340

CA Ontario (Institute of Chartered Accountants of Ontario)

Toronto

Executive Director: David A. Wilson, F.C.A.

The Institute of Chartered Accountants of Ontario, founded in 1879, educates and examines candidates for the profession and regulates the professional standards of its members and students. Only members of the institute can call themselves chartered accountants and use the designation CA or FCA.

Chartered accountants are trained as professional public accountants. As members of the Institute of Chartered Accountants of Ontario – the sole qualifying body under Ontario's Public Accountancy Act – CAs are eligible for a public accountant's licence.

Student Enrolment 1988-89
Total 5 000

Admission Requirements
University graduation is the basic admission requirement to the program of study leading to the CA designation. Most students enrol in the CA program after receiving a commerce or business administration degree, but many have found that a degree in arts, science, engineering, or other disciplines can also provide an effective educational background for the profession.

Mature students who do not have a university degree may request exemption from the university degree requirement. Arrangements can also be made for those people who are working toward a degree on a part-time basis.

In addition to a university degree, the educational requirements include a prescribed series of regular degree courses in accounting and related subject areas.

Program of Study
Students fulfil the course requirements at the university of their choice, either as part of their degree course requirements or through additional studies after graduation. The institute provides borchures that set out the university courses that satisfy its requirements.

Students must also obtain employment in a CA office designated for the training of students and register with the institute inorder to start the three years of practical experience they must acquire. Students achieving a mark of 280 or more on the CA profession's uniform final examination (UFE) are eligible for a reduced two-year term of service.

The educational program also requires that students successfully complete the institute's school of accountancy – a program that integrates academic education

and professional practice. Through innovative case analysis in four weeks of seminars in June, students focus on the skills that chartered accountants require. They prepare for this through a structured self-study reading and review program.

One of the requirements for the school is passing admission examinations in accounting, auditing, and taxation. The examinations are based on university courses that must be completed within or in addition to the student's degree program. They are held every August with a supplemental sitting in May. A second regular sitting begins in January 1990; the May supplemental sitting will not continue after 1990. To be eligible to write the school's admission examinations, a student must be registered with the institute or have satisfied certain pre-registration requirements. The course requirements in each subject area must be completed before its related examination can be written. Students must successfully complete the school before attempting the Canada-wide UFE.

Co-operative Programs
Several Ontario universities, listed below, offer institute-approved CA co-operative programs of alternating terms of work and study. Students may complete the course requirements in these programs and fulfil, in some cases, up to two years of the practical experience requirement as part of the degree program.

The University of Waterloo offers three CA degree programs. Its Master of Accounting degree program has received special status from the Institute of Chartered Accountants of Ontario. Graduates of this program will proceed directly to write the UFE. The other two programs are honours (co-op) chartered accountancy studies in the Faculty of Arts and honours (co-op) mathematics (chartered accountancy option) in the Faculty of Mathematics.

Wilfrid Laurier University offers a CA co-op undergraduate degree program in business administration. Brock University has a CA co-op undergraduate degree program leading to an honours Bachelor of Administration degree. The University of Ottawa offers a Bachelor of Commerce co-op degree program. Scarborough College at the University of Toronto offers a co-op program in administration.

Both McMaster University and the University of Toronto offer CA co-op programs in business administration. These programs are similar in approach to other co-op programs, except that they are taken at the graduate level.

Further information on these programs may be obtained from
School of Accountancy
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 6536

Faculty of Mathematics
Division of Mathematics for Industry and Commerce
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2198

Office of Co-operative Education
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2484

School of Administrative Studies
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550 ext. 3446

University of Ottawa
275 Nicholas St.
Ottawa, Ontario K1N 6N4
Telephone (613) 564-4099

Faculty of Business
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4430

Faculty of Management
University of Toronto
246 Bloor St. West
Toronto, Ontario M5S 1V4
Telephone (416) 978-5528

Office of Co-operative Programs
University of Toronto, Scarborough College
1265 Military Trail
Scarborough, Ontario M1C 1A4
Telephone (416) 284-3117

Deadline for Registration
Students register with the institute as soon as they are employed by a CA office designated for the training of students. Applicants must also comply with the university registration dates for extramural students enrolling in degree courses. For the latter, details should be obtained from the university chosen by the applicant.

Fees
Students can obtain information about university course fees directly from the university of their choice. In addition, students must pay the institute's registration fee when they enter the program and an annual fee each year thereafter. In 1988 these fees were $100 and $145 respectively. The fee for the institute's School of Accountancy admission examinations is $80 per examination. The School of Accountancy fee was $880 and the final examination fee was $650 in 1988.

Further Information
For further information, please contact
The Office of the Registrar
The Institute of Chartered Accountants of Ontario
69 Bloor St. E.
Toronto, Ontario M4W 1B3
Telephone (416) 962-1841
Toll-free 1-800-387-0735
Fax (416) 962-8900

Certified General Accountants Association of Ontario

Toronto

Executive Director: Gordon W. Fuller, FCGA

Certified general accountants are members of the Certified General Accountants Association. They work in financial positions such as controller, treasurer, director of finance, auditor, and tax specialist.

CGA Ontario offers a study program that prepares students to become direct participants in management. Students study subjects such as economics, law, information and computer systems, income tax, accounting, and auditing, to name a few. Graduation qualifies students for the designation CGA and membership in the association.

Student Enrolment 1988-89
Total 7 000

Admission Requirements
The national minimum entrance requirement is graduation from a secondary school. Approximately 70% of those entering the course do so after having graduated from university or college. These students receive advanced standing in the CGA program. Students enrolled with the CGA Association may select the type of business in which they wish to be employed and gain their practical experience; the choice is entirely theirs. All applicants must be residents of Ontario.

Program of Study
The program is primarily self-directed study, supplemented by lectures in 20 locations throughout the province. These lectures are held in universities and colleges.

Program 90, a computer-integrated program of studies, provides CGA students with hands-on experience of the microcomputer after completion of the first level. Another unique feature of the CGA program is that it is the only accounting program that offers options. The versatility of the option program allows senior students to specialize in the fifth level. Senior students may specialize in financial management, management accounting, public administration, or public practice. The program is national, and all courses are identical in each province. Students may, therefore, transfer from province to province without any disruption in their study program.

Modular System
The program has a modular system of study that enables students to vary their subject sequence to suit both the demands of their employer and their own personal needs.

Services
Students and members participate in and benefit from active local chapter associations. CGA Ontario also operates an employment referral service and a comprehensive library. In addition, it provides its members and students with their own professional magazine and optional professional development courses and seminars.

Further Information
For further information, contact the Director of Student Services at one of the following offices
Certified General Accountants
Association of Ontario
480 University Ave.
4th Floor
Toronto, Ontario M5G 1V2
Telephone (416) 593-1103

Certified General Accountants
Association of Ontario
107 Sparks St.
Suite 301
Ottawa, Ontario
K1P 5B5
Telephone (613) 232-5363

Hospital Programs

The following programs are offered at the hospitals indicated.

Medical Laboratory Technology*†

Two years
Offered at: McKellar General Hospital
325 South Archibald St.
Thunder Bay, Ontario P7E 1G6
Telephone (807) 343-7003

Radiography*†

Two years
Offered at: Kingston General Hospital
Stuart St.
Kingston, Ontario K7L 2V7
Telephone (613) 548-3232 ext. 4267

Radiotherapy

Thirty-two months
Offered at: The Princess Margaret Hospital
500 Sherbourne St.
Toronto, Ontario M4X 1K9
Telephone (416) 924-0671 ext. 4946/4947

*These programs are also offered at colleges of applied arts and technology. See the CAAT chart that appears earlier in this directory.

†These programs are also offered at Toronto Institute of Medical Technology. Refer to the Toronto Institute of Medical Technology listing in this directory.

Institute of Chartered Secretaries and Administrators in Ontario

Toronto

Executive Director: Brian L. G. Lechem

The Institute of Chartered Secretaries and Administrators in Ontario (ICSA) is an international professional organization of executive administrators. The Ontario institute is one of six provincial branches of the Canadian division. Although knowledge of administrative matters and corporate governance is a major requirement for ICSA examinations, a wide knowledge of public as well as business administration is also necessary. Members and students are employed in a wide variety of positions: university, hospital, and school administrators; clerk-treasurers of municipalities and administrative positions to the level of deputy minister in the public sector; and president, vice-president, secretary, treasurer, comptroller, etc., in the private sector. Members of other professions such as lawyers and accountants have earned the ACIS (Associate) or FCIS (Fellow) designations.

Established in Canada in 1920, the ICSA is incorporated provincially (including Ontario) and federally. The current international membership of ICSA is approximately 45 000. Although membership is obtained by passing examinations, graduates must also meet the standards of the position held and have the requisite number of years of working experience. If graduates cannot immediately meet such standards, they are designated as graduates of ICSA until these qualifications are attained.

Program of Study
Under the ICSA's syllabus a student must pass a maximum of fourteen examinations in management and corporate governance subjects. The first six prerequisite courses may be examined by approved institutions. The final eight courses in the professional program are to be taken by correspondence courses or through an approved educational institution and, in all instances, examined by the ICSA. When courses are taken at an educational institution, a transcript is necessary before the professional examinations may be written.

Exemptions are available, and the well-qualified entrant may reduce the number of examinations to a minimum of five.

Registration
Before writing an institute examination, the student must be registered. The majority of registered students are in Ontario, where the Institute has branches in Toronto and Ottawa. Because a primary objective of the ICSA is to train its members' successors, continuous liaison is maintained with

students. Co-operating universities and colleges have their own deadlines for registration for lectures.

The ICSA holds examinations in June and December each year.

Student Awards
A gold medal is given each year to the graduating student who achieves the highest aggregate marks in examinations. Prizes and other awards are open to competition on a national and branch basis.

Fees
Fees are assessed for the annual student registration and for exemptions granted. Information may be obtained from the administrator in the national office.

Services
The institute regulates the professional standards of its members and students, and only members may describe themselves as chartered secretaries and use the FCIS or ACIS designation after their names. At the various levels (national office, branch, and chapter) the ICSA offers a wide variety of services, including dinner and other meetings, a quarterly magazine, conferences and seminars, research and information, and continuing education generally. Students are always invited to attend meetings of members.

Further Information
For further information please contact
The Administrator
Ontario Branch
The Institute of Chartered Secretaries and Administrators
245 Fairview Mall Drive
Suite 518
Willowdale, Ontario M2J 4T1
Telephone (416) 494-3757
Fax (416) 495-8723

Niagara Parks Commission School of Horticulture

Niagara Falls

Superintendent: William Snowden

The Niagara Parks Commission School of Horticulture is located on the Niagara River Parkway about 8 kilometres north of the Canadian Horseshoe Falls and is funded by the Niagara Parks Commission. The school year begins in April, and the course of study extends for 36 consecutive months. During each school year, students are granted the regular statutory holidays in addition to four weeks' vacation as follows: three weeks beginning before Christmas and extending into January, and one week during the growing season. Students are engaged in classroom activities or practical work experience for forty hours per week.

Facilities include a residence, lecture halls, a library, laboratories, greenhouses, a herbarium, and administrative offices. A visitors' reception centre houses an arboretum office, herbarium, and other facilities. The 33-hectare grounds include a rose garden, a herb garden, fruit and vegetable gardens, and an arboretum, maintained entirely by students as part of their practical work.

The program emphasizes ornamental horticulture and prepares students for immediate responsibilities in the work place, but also offers an optimum preparation for those who aspire to further studies in horticultural sciences, landscape architecture, and the administration of public and private lands.

A substantial number of graduates find employment in the field of park maintenance and administration, and an increasing number find employment in private enterprise in the landscape, nursery, and greenhouse industries, golf courses, and horticultural sales. Others undertake graduate courses and teaching positions.

Enrolment 1988-89
Total 36 (12 per year)

Admission Requirements
Grade 12 or its equivalent, with a 60% average in English (four years), mathematics (four years), chemistry (preferably two years), and biology (preferably two years).

Previous summer work experience in horticultural activity is also required. The extent and nature of this work has an important bearing on candidates' selection for admission.

Candidates must demonstrate that they are physically fit, are Canadian citizens, and have a commitment to a horticultural career. Inquiries or visits are encouraged at all times. Applications are accepted until June 30 each year for admission each April of the following year.

Program Offered
A three-year diploma program in general horticulture leading to the Niagara Parks diploma (N.P.D.), with practical work experience and academic training in equal balance. No options are offered. The curriculum includes arboriculture, botany, business management, English, entomology, floriculture, fruit culture, greenhouse management and production, horticultural chemicals, land surveying, landscaping, plant identification, plant pathology, plant taxonomy, seed production, soils, turf grass management, and vegetable culture.

Fees
Tuition fees are $700 per year. This includes a $100 field trip fee. A deposit (refundable) of $600 is required on admission.

Residence Accommodation
Accommodation and prepared meals are provided on campus for the first two years at no charge. Third-year students are required to live off-campus at their expense.

Student Financial Allowance
As partial compensation for the students' work effort, an allowance is paid on a graduated scale for the three years (currently $26 – $28 – $40 per week).

Further Information
Admissions
School of Horticulture
The Niagara Parks Commission
P.O. Box 150
Niagara Falls, Ontario L2E 6T2
Telephone (416) 356-8554

Nursing Assistant Program

Nursing assistant programs provide an opportunity for men and women to enter the field of nursing. All programs offer courses in the biological and social sciences that have application to the theory and practice of basic nursing, as well as planned clinical experience under faculty supervision. Upon successful completion of a program, graduates are eligible for admission to the examination conducted by the College of Nurses of Ontario, leading to registration and certification of nursing assistants in Ontario.

Registered nursing assistants work with registered nurses to provide nursing care to individuals in various health-care settings such as hospitals or continuing-care facilities. They carry out delegated nursing assignments under the supervision of registered nurses.

Nursing assistant programs, except for those in secondary schools, are 36 to 40 weeks in length. Following is a list of the nursing assistant programs in Ontario:

Colleges of Applied Arts and Technology
The academic prerequisite for the nursing assistant program is 27 Ontario secondary school credits or the equivalent, or mature student status (an applicant must be 19 years of age or older).

Belleville: Loyalist College
Brockville: St. Lawrence College Saint-Laurent
Etobicoke: (Toronto): Humber College†
Kingston: St. Lawrence College Saint-Laurent
Kirkland Lake: Northern College†
Kitchener: Conestoga College*
London: Fanshawe College (part-time only)†
Mississauga: Sheridan College
North Bay: Canadore College†
Orillia and Owen Sound: Georgian College†
Oshawa: Durham College
Ottawa: Algonquin College (French and English programs)
Peterborough: Sir Sandford Fleming College
St. Catharines: Niagara College*
Sarnia: Lambton College
Sault Ste. Marie: Sault College
Scarborough (Toronto): Centennial College†
South Porcupine: Northern College
Sudbury: Cambrian College (bilingual program)†
Windsor: St. Clair College†

Regional Schools for Nursing Assistants
These schools are sponsored by the Ontario Ministry of Colleges and Universities and Ministry of Education. This program admits applicants with a minimum of 14 Ontario secondary school credits or comparable standing, and mature applicants (19 years of age and older, who must meet the above requirements or provide proof of successful completion of English, mathematics, and science at the Ontario Grade 10 level).

Hamilton: Regional School for Nursing Assistants
430 York Boulevard, L8R 3K8
Telephone (416) 529-1187

London: Regional School for Nursing Assistants
205 York Street, 2nd Floor, N6A 1B4
Telephone (519) 432-7506

Sudbury: Regional School for Nursing Assistants
40 Larch Street, 3rd Floor, P3E 5M7
Telephone (705) 673-5001

Thunder Bay: Regional School for Nursing Assistants
1111 Victoria Avenue, 2nd Floor, P7C 1B7
Telephone (807) 475-1615

Toronto: Regional School for Nursing Assistants
90 Gerrard St. W., 3rd Floor, M5G 1J6
Telephone (416) 965-2131

Hospitals
For information concerning academic admission requirements to a nursing assistant program in a hospital school, contact the hospital school.

Collingwood: Collingwood General and Marine Hospital
Cornwall: Cornwall General Hospital
Elliot Lake: St. Joseph's General Hospital
Fort Frances: La Verendrye Hospital
Kenora: Lake of the Woods District Hospital
Sturgeon Falls: West Nipissing General Hospital (in French)
Wingham: Wingham and District Hospital

Secondary Schools
The following secondary schools offer the nursing assistant program in Grades 11 and 12. The program is taken concurrently with other secondary school courses.

London: H.B. Beal S.S.
Newmarket: Huron Heights S.S.
Peterborough: Kenner Collegiate V.I.
Toronto: Central Technical School

Financial Assistance
Students in nursing assistant programs at colleges of applied arts and technology, regional schools for nursing assistants, and hospital schools are eligible to apply for assistance from the Ontario Student Assistance Program. For information on this government assistance program, see the introductory section *Financial Assistance for Students*.

Further Information
For further information on nursing assistant programs, applicants should contact the institution offering the program selected. For information on other health science programs, refer to the CAAT chart, the university chart, or the section on the Toronto Institute of Medical Technology in this directory.

*Part-time program available.
†First semester common to nursing assistant and nursing programs at the college.

Ontario College of Art

Toronto

President: Timothy Porteous

The Ontario College of Art provides the environment and educational programs for developing outstanding artists and designers. The college prepares its graduates for professional excellence, maturity, and originality in their careers by offering them a well-rounded college education that encourages them to develop their social and intellectual strengths. OCA graduates have a tremendous impact on the cultural, commercial, and industrial sectors of Canadian life.

Enrolment 1988-89

	Undergraduate
Full-time	1 282
Part-time	1 851

General Admission Requirements
For the 1990-91 academic year the minimum academic requirement for admission to the Ontario College of Art four-year diploma program is the OSSD (30 credits) or its equivalent. Applicants will be required to present a portfolio. This portfolio is the primary criterion for acceptance into the foundation year I program.

Applicants should have completed at least six OACs within their OSSD. No special subjects are required, but consideration will be given to additional academic achievement, relevant experience, and specialized education in art and design. The present OSSGD with 27 credits is acceptable from applicants who graduate, or have graduated, before the introducation of the OSSD. Applications for admission in September 1990 will be closed April 1, 1990.

Undergraduate Program
The college grants the Associate of the Ontario College of Art (A.O.C.A.) diploma upon graduation from the four-year program (32 credits).

In first year, students are introduced to a broad variety of ideas, approaches, media, materials, methods, processes, and applications through the program of the Department of Foundation Studies. This program is designed to heighten perception and awareness and to develop visual creativity. The compulsory courses include drawing, two-dimensional design, three-dimensional design, media, colour, and a lecture/seminar course.

After first year, students may choose from a variety of programs: specialist, major, double major, or combined. Students wishing to specialize in the art programs may choose studies in painting and drawing, sculpture and installation, printmaking, and new media (video, film, electronics, computers).

Those in the design programs may study in advertising, advertising or editorial illustration, editorial or corporate design, and industrial and environmental design. Programs are also available in media and materials – ceramics, glass, jewellery, surface design/print, and textiles, with support in film/video/audio, foundry, holography, metal, plastics, and wood.

Interdisciplinary studies and interdepartmental programs are available with special approval. There is an extensive array of lecture and seminar courses associated with the program.

Detailed program and course descriptions are listed in the college calendar, available through the Registrar's Office.

Each student has a faculty adviser who assists in choosing courses and in formulating long-range program objectives. The adviser is concerned with developing with the student an ongoing and open communication to foster overall progress and general welfare.

Students in years 2, 3, and 4 will choose their advisers from among the faculty members. When possible, this adviser will be one of their course instructors. Students are expected to meet individually with their adviser at least once a month.

Postdiploma Program
The Ontario College of Art offers a fifth year of study to students holding the A.O.C.A. diploma or its equivalent. The program is designed to provide students with a year of intensive study in one of the fields of concentration offered in the college program. While no further diploma is awarded, admission and academic standing in the fifth-year program, as well as final evaluations, are recorded on the student's academic record.

Part-Time Day and Evening Programs
The college can accommodate a limited number of part-time students within the regular daytime program.

A variety of credit courses are offered during the evenings and in the summer. Admission requirements, evaluation procedures, and credit requirements for part-time students are the same as those applying to students in the full-time program. Further information and course descriptions are available from the registrar's office.

Transfer Credit Arrangement with the University of Guelph
Depending on the academic qualifications on admission to OCA and on the courses taken, students who graduate with the A.O.C.A. diploma are usually credited with one to one-and-a-half years in the University of Guelph's three-year B.A. program. Because of the trimester system at the University of Guelph, it is possible for the OCA undergraduate to pursue B.A. studies by taking the spring semesters at Guelph, usually May 1 to August 15, following the completion of the OCA regular session in April. In short, it is possible for a student to obtain both the A.O.C.A. diploma and the University of Guelph B.A. degree in less than four full years of study. This possibility will be of particular interest to those who wish to teach art in Ontario schools.

Tuition Fees 1989-90
Total $1 477
Total yearly fee for applicants from outside Canada is $5 570.

Financial Assistance
Students in financial need may apply for assistance through the Ontario Student Assistance Program. (See the introductory section, *Financial Assistance for Students*, for details.) Both full- and part-time students may apply; depending on course load and financial need, they may qualify for a grant or a loan or a combination of both.

Further Information
Admission inquiries should be addressed to
Anne Papmehl, Associate Registrar
Ontario College of Art
100 McCaul St.
Toronto, Ontario M5T 1W1
Telephone (416) 977-5311

For information about campus visits or schools liaison, please contact
Anne Graham, Admissions/Liaison Co-ordinator
Ontario College of Art
100 McCaul St.
Toronto, Ontario M5T 1W1
Telephone (416) 977-5311 ext. 236

Society of Management Accountants of Ontario (SMAO)

Toronto

Executive Director: R.W. Dye, CMA, FSMAC

The Society of Management Accountants of Ontario is the professional body devoted to the training, accreditation, and continuing development of the province's certified management accountants (CMAs). It is one of 12 affiliates across Canada through which men and women may earn the nationally recognized CMA designation. Enrolment in Ontario currently exceeds 11 000 students. The CMA program, available through post-secondary institutions and the SMAO, specializes in the problem-solving and decision-making needs of management.

A new CMA education and accreditation process is scheduled for implementation by the summer of 1989. In order to receive the CMA designation, the required academic program outlined by the SMAO, along with two professional accreditation examinations and a minimum of two years of practical work experience, must be successfully completed.

Program of Study
The CMA professional program prepares candidates to apply accounting skills in a management context as required for progressively senior levels of management. The program will introduce current management accounting issues and new management concepts in interactive learning situations. The program's content is drawn from six subject areas: the changing environment of management accounting, new management accounting technology, the organizational environment, evolving operations management procedures, new management techniques, and the professional environment. Students will be exposed to different learning experiences through independent study, group sessions, and residential sessions.

Route to CMA Accreditation
The CMA education and accreditation process is an expanded six-part program consisting of general education and accounting studies, a two-part professional accreditation examination process, a professional studies component, and a minimum practical experience requirement of 24 months.

Candidates must first fulfil all requirements of the pre-professional program through university studies, and then successfully complete the professional accreditation examination, part I, before being admitted into the professional studies component. The practical experience requirement must then be completed while candidates are progressing through the professional program.

Upon successfully completing the professional studies component, the two-part examination process, and the practical experience requirement, candidates are eligible to write the final professional accreditation examination, part II. The SMAO oversees the professional studies component, the two-part examination process, and the practical experience requirement.

Admission Requirements
The general education and accounting studies components, which constitute the pre-professional program, must be fulfilled through university degree studies. Most Ontario university students graduating with a business degree with an accounting emphasis will have completed the pre-professional program requirement and will be ready to write the examination for admission into the professional studies component.

Graduates from arts and science programs, community colleges, and other professional associations may be eligible for exemptions from the SMAO's pre-professional program. Candidates are advised to submit their transcript to an Ontario university for evaluation. Where exemptions are not granted, candidates must complete the pre-professional program requirement through university study.

Associate Student Membership
THE SMAO makes associate student membership available to full-time university students interested in a career in management accounting. In return for the payment of a nominal annual fee, the student will have access to the membership newsletter, *CMA* magazine, the employment search guide, and the employment referral service.

Professional Services
The 22 local chapters of the SMAO hold regular meetings and events on matters of professional concern to accredited and student members. Members may also take advantage of such SMAO services as the comprehensive lending library and research facility at the Hamilton office, and a province-wide employment referral service available through the Toronto office. Other services include: *CMA*, the national society's magazine on management accounting practice, managerial control, and related topics; an annual members' dinner; annual national and provincial conferences; continuing professional education seminars; and the publication and distribution of many of the Society's research studies.

Further Information
For further information please contact a program adviser at
Society of Management Accountants of Ontario
70 University Ave., Suite 300
Toronto, Ontario M5J 2M4
Telephone (416) 977-7741
Toll free 1-800-387-2991

Toronto Art Therapy Institute

Toronto

Executive Director: Martin Fischer, M.D., D. Psych., F.R.C.P.

The Toronto Art Therapy Institute offers graduate-level diploma training in art therapy. The institute encourages students to undertake an individualized approach to learning.

The institute's program is designed to prepare art therapists to work in facilities such as community health centres, psychiatric hospitals, general hospitals, public and private schools, daycare and residential centres, centres or programs for physically handicapped children and adults, senior citizens' residences, and centres or special programs for physcially and sexually abused women and children.

Students are trained to work with individuals, families, and groups. The theoretical base is eclectic and emphasizes a dynamically oriented approach. It includes theoretical and practical knowledge in diagnosis, treatment, rehabilitation, and education.

The Diploma in Art Therapy is granted upon satisfactory completion of approximately 650 hours of course work and course requirements. All course requirements must be submitted one month before graduation. Students fulfil a minimum of 900 hours of internship in various sites. This includes weekly individual and group supervision with a registered art therapist and regular consultation with the institute's consulting psychiatrist. Students enrolled in the diploma art therapy training program are expected to take courses on a full-time basis and will ordinarily complete requirements in two years.

Students are required to maintain a B+ average in both classroom and internship. The personality and intellectual capabilities of each student are carefully evaluated. Students may be disqualified from the program for factors other than grades.

All students are required to participate in individual or group psychotherapy with a member in good standing of the Canadian Group Therapy Association, the Canadian Psychological Association, the Canadian Medical Association, or the Canadian Association of Social Workers. One month before completing the program, students are required to submit letters from their therapists certifying that they have actively participated in their personal therapy and indicating whether significant changes have occurred in areas that have been identified as problematic. The institute recommends 80 hours of therapy during the program. Trainees who have engaged in therapy before enlisting in the training program must provide written evidence from their therapist

regarding the duration and outcome of their therapy.

Students are granted one sick day a month (10 days a year), which does not have to be made up as long as students present a doctor's letter. More than 10 days missed in one year must be made up through registering for a new term and paying tuition fees that are pro-rated on the basis of time missed.

Students enter the training program on a three-month probationary period. The institute staff reserve the right to ask students to withdraw from training, and students have the right to leave the training program. Students are expected to participate in any professional conferences, workshops, or events in which the institute is involved.

Fees
Tuition fees are $5 200 for ten months of study. The fees include the cost of individual and group supervision, seminar classes, and laboratory fees.

Financial Aid
Students loans are available through Canada Student Loans.

Further Information
Toronto Art Therapy Institute
216 St. Clair Avenue West
Toronto, Ontario M4V 1R2
Telephone (416) 924-6221

Toronto Institute of Medical Technology

Toronto

Executive Director: Dr. D.M. Schatz

The Toronto Institute of Medical Technology is a specialized postsecondary educational institution offering programs in various health technologies. From its beginning in 1966, with one program and 16 affiliated teaching hospitals, it has grown to include six full-time programs and more than 40 affiliated hospitals. It also offers a variety of postdiploma specialty and postgraduate continuing education programs for working technologists.

Each full-time program is actively supervised by an advisory council, which consists of medical specialists and technologists from affiliated hospitals, institute teaching staff, and student representatives. It is the responsibility of the advisory councils to ensure that the programs meet the needs of health care and provide the basis for advanced study. Similarly, advisory committees in each specialty assist in identifying and meeting the needs for postgraduate education offered through the Division of Part-Time Studies.

The institute's building, in downtown Toronto, features specialized laboratory design and modern equipment, which offer excellent facilities for training in the health sciences.

Health workers must possess a sense of responsibility and be able to work carefully and accurately. The ability to work co-operatively with colleagues and to deal with patients effectively and sympathetically is important.

Enrolment 1987-88
Full-time 500

Programs Offered

• Medical Laboratory Technician

One-year certificate
This one-year program is designed to produce graduates capable of performing routine technical procedures under the supervision of registered laboratory technologists. Before the establishment of this program, medical laboratory technicians were trained on the job within the hospital environment and did not possess any recognized qualifications. Recent increases in the scope and volume of investigations carried out by hospital laboratories have expanded the role of laboratory technicians and created a need for formal training.

Admission requirements
An OSSGD or OSSD with mathematics and chemistry at the Grade 12 level and mathematics and one other science at the Grade 11 level. Students from outside Ontario must have the equivalent educational standing.

• Cytotechnology

Two-year diploma
Cytotechnologists play an instrumental part in the diagnostic procedure. The preparation and staining of specimens submitted to the laboratory and detailed examination of material from various body sites are included in their responsibilities. Cytotechnologists' work is supervised by pathologists, either in a hospital or in a private laboratory.

Admission requirements
The requirements for admission to the R.T. program are an OSSHGD or OSSD with six Grade 13/OAC credits including mathematics, chemistry, and one of biology or physics. Students who intend to enter the cytotechnology program are advised to take biology as the second science. Students with an OSSGD or OSSD who have completed an appropriate first year in a college of applied arts and technology may apply for equivalent standing.

Students from outside Ontario must have the equivalent educational standing.

• Radiography

Two-year diploma
The two-year training program is organized jointly by the Toronto Institute of Medical Technology and the affiliated teaching hospitals. An orientation period in a hospital is followed by further training in theory and practice at the institute. Students spend a considerable portion of the two-year period obtaining clinical education in an affiliated hospital.

Admission requirements
An OSSGD or OSSD with at least 27 credits, including the following advanced level credits from Grade 11 or 12: two mathematics, two English or French, one physics, and one of either chemistry or biology. Two additional sciences at either the general or advanced level are required.

Students from outside Ontario must have the equivalent educational standing.

• Medical Laboratory Technology

Two-year diploma
The current rapid advances in technological knowledge make laboratory technology, one of the oldest established medical technologies, an interesting and challenging career. Laboratory technologists are an important part of the health team because physicians have come to depend on the results of laboratory tests to aid them in the diagnosis of disease and in selection of appropriate treatment. Medical laboratory technology is divided into five major specialties: clinical chemistry, hematology, histotechnology, immunohematology, and microbiology.

Admission requirements
An OSSHGD or OSSD with six Grade 13/OAC credits including mathematics, chemistry, and one of biology or physics. Students who intend to enter the medical laboratory technology program are advised to take biology as the second science. Any of the three proposed mathematics courses for secondary schools will be acceptable; however, the most appropriate course is functions and relations.

Students with an OSSGD or OSSD who have completed an appropriate first year in a college of applied arts and technology, including mathematics, chemistry, and biology, may apply for equivalent standing.

Students from outside Ontario must have the equivalent educational standing.

• Nuclear Medicine Technology

Two-year diploma
Nuclear medicine technologists are responsible for the safe and accurate performance of diagnostic tests involving the use of radionuclides. These tests may be divided into two categories: *in vitro* testing involves the use of radioactive chemicals to make analyses of specimens in a laboratory remote from the patient; *in vivo* testing involves the administration of radioactive materials to a patient, followed by specific testing to determine body function. Both types of testing provide answers that aid physicians in determining the nature and extent of disease, thereby helping them to decide on the proper treatment.

Admission requirements
An OSSHGD or OSSD with six OAC credits including the following advanced level credits in Grade 11, 12, or 13: two mathematics, two English, two chemistry, one physics, and one additional science.

Students from outside Ontario must have the equivalent educational standing.

• Respiratory Therapy

Two-year diploma
Respiratory therapists are trained to assist physicians in the diagnosis, treatment, and management of patients with respiratory and associated disorders.

The two-year training program is organized and carried out jointly by the institute and affiliated teaching hospitals.

The first phase of the program (10 months) is carried out at T.I.M.T. During this time, students study anatomy, physiology, physics, chemistry, pathophysiology, pharmacology, and microbiology. Students also receive detailed theoretical training in instrumentation, therapeutics, and diagnostics applicable to cardiorespiratory medicine. The lectures are co-ordinated with extensive laboratory experience designed to familiarize students with the operation and the practical application of a broad range of instrumentation used by respiratory therapists.

The clinical year provides students with practical training in affiliated teaching hospitals. Students learn to perform respiratory techniques and procedures under actual working conditions.

Admission requirements
An OSSGD or OSSD, with advanced level credits in Grade 12 English, mathematics, and chemistry, and Grade 11 physics.

Students from outside Ontario must have the equivalent educational standing.

Part-Time Studies
The Division of Part-Time Studies offers working health care professionals a wide variety of learning opportunities, both days and evenings, throughout the year. Telephone (416) 596-3117 for more information.

Tuition Fees 1988-89
First year full-time $732 to $955
Second year full-time $925 to $975

Living Accommodation
The institute has no residence, and students are responsible for finding their own accommodation. Students from outside Toronto are advised to find accommodation close to the subway or close to the institute itself, possibly in one of the student residences located in central Toronto. The registrar's office will post a list of housing available in July for students' use.

Health Service
The Health Service office is staffed by a certified occupational health nurse, who offers emergency first aid and a preventive medicine program. The nurse is available for confidential counselling on all types of health problems.

Student Placement
A placement service is offered to assist graduates in finding employment. Any student who requires assistance in finding employment should register with the placement service.

Financial Assistance
Financial assistance is available to help students complete their postsecondary education. The assistance available is a supplement to, and does not replace, family and other financial resources available to students. Applications for loans and bursaries may be submitted as soon as a student is accepted into a program; however, no loans or bursaries are payable until the student has registered, paid the initial fees, and begun classes.

Further Information
Further information may be obtained from
The Admissions Department
Toronto Institute of Medical Technology
222 St. Patrick St.
Toronto, Ontario M5T 1V4
Telephone (416) 596-3143

Distance Education and Correspondence Study

Distance education offers an accepted alternative to enrolment in regular full- or part-time study programs. People who are unable to attend regular school sessions have the option of continuing their studies in a variety of fields and at different levels. Many people who have missed higher education in the past, who need upgrading, refresher, or work-related courses, or who, out of interest, wish to continue their education, benefit from correspondence study.

In Ontario, distance education is offered by:
1) colleges of applied arts and technology
2) universities
3) registered private vocational schools (private correspondence schools)
4) the Independent Learning Centre (Ministry of Education)
5) accountants' organizations (Certified Accountants Association of Ontario, Institute of Chartered Accountants of Ontario, Society of Management Accountants of Ontario)

The Ministry of Education's Independent Learning Centre offers elementary and secondary school correspondence courses. Private vocational schools provide those unable to attend school full-time with the opportunity to gain job-entry skills. University correspondence courses offer an alternative method of study for degree credit or a professional upgrading of general interest, while colleges of applied arts and technology offer correspondence courses primarily in the business field.

Learning by correspondence allows a certain freedom with respect to time and place of study and study habits. However, students thinking about correspondence study should carefully consider the discipline and motivation required to progress without personal contact with teachers and fellow students and without the benefit of school facilities.

• Colleges of Applied Arts and Technology Offering Correspondence Courses/Distance Education
Learning by correspondence through the colleges of applied arts and technology is little used as an alternative method of study. In keeping with the colleges' mandate for increased community involvement, emphasis has been placed on part-time and continuing education as the alternative to regular day-time study. Part-time and evening programs are offered by all the colleges at their various campus locations.

There are, however, colleges that do offer correspondence study as an additional study opportunity. Admission requirements are similar to college entrance requirements: satisfactory standing in Ontario Grade 12 or proof of qualification as a mature student (19 years of age and over).

Algonquin College
Algonquin's School of Continuing Education, business distance learning section offers a 12-course certificate program and 36 selected courses through distance education. To pursue the certificate program, students may select an area of specialty concentrating in economics, marketing, data processing, business quantitative analysis, management studies, accounting, finance, and general business.

Distance learning courses are available to Grade 12 graduates as well as mature students (over 19 years of age). Students may enrol in the distance learning courses at any time.

Further Information
School of Continuing Education
Distance Learning Section
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave., Room C101
Nepean, Ontario K2G 1V8
Telephone (613) 727-7667

Cambrian College
Cambrian College offers a number of programs through teleconferencing and computer conferencing: Native community care, counselling and development, ambulance and emergency care, *techniques pour services de developpement*, teachers of adults (certificate program), *certificat en éducation des adultes*, early childhood education (diploma program), general business (two-year), working with the aged (postcertificate), *gérontolgie multidisciplinaire certificat à l'intention des diplômes*, postdiploma multidisciplinary gerontology program.

Further information
George Tompkins
Co-ordinator, Distance Education
Cambrian College of Applied Arts and Technology
Telephone (705) 566-8101 ext. 7808

Centennial College
Centennial offers a correspondence program, ophthalmic assistant home study, which is endorsed by the Canadian Opthalmological Society. Entrance requirements for the two-phase certificate program are: 1) current employment under the supervision of an ophthalmologist, and 2) an OSSD (or equivalent) or mature student status.

The $75 fee for each course includes course materials (except textbooks) and examinations.

Further information
Co-ordinator, Health Programs
School of Continuing Education Division
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 404

Conestoga College
Conestoga College offers several non-credit courses, a preparatory hone-study program, and some registered nursing programs through distance learning. Students may register for non-credit courses at the start of each semester. Instructor support is available by telephone and written correspondence. Optional workshops offering students the opportunity to meet instructors and other students are available for some courses. The cost of tuition is $1.50 per hour; learning packages and textbooks are extra.

Conestoga's home study program provides students with an opportunity to gain the mathematics and English requirements necessary for admission to postsecondary programs. After a brief initial testing, students work on their assignments at home. Some tests must be written at the college. The tuition fee is $30 for a 10-week program; this fee does not include the cost of textbooks. There are no entrance requirements, but all candidates are interviewed by teachers before registration. Students may enrol at any time, providing the program is not filled.

Specific courses in the registered nurse – refresher program and registered nurse – critical care nursing program are offered through distance education. The 312-hour refresher program is designed to assist registered nurses who have not actively practised nursing for a period of time to demonstrate competence in accordance with the current standards of nursing practice of the College of Nurses of Ontario. The cost is $1.50 per hour. The 407-hour critical care nursing program provides registered nurses with specialized knowledge and skills in critical care nursing. The cost is $1.50 per hour.

Further information
Conestoga College of Applied Arts and Technology
Continuing Education
299 Doon Valley Dr.
Kitchener, Ont. N2G 4M4
Telephone (519) 748-5220 ext. 326, 414

Confederation College
Distance Education, Conferation's continuous learning system, provides an opportunity for Northwestern Ontario residents to enrol in individual subjects or earn a college certificate or diploma by arranging study around a personal schedule.

Each community participating in the program has a learning centre established for the duration of the course. This learning centre is accessible 12 to 24 hours per day. It may be at a college campus, Contact North site, or local school. Weekly group meetings and scheduled group tutorial sessions with instructors are arranged to accomplish group learning tasks and collectively solve any problems that occur.

Certificates are available in the following areas: ambulance and emergency care, core business, critical care nursing, developmental services worker, early childhood education, home support level II, hotel operations, multidisciplinary gerontology, RNA refresher, working with the aged – postcertificate.

Diplomas are available in: general business, business accounting, business administration, general vocational preparation.

Further information
Supervisor, Distance Education
Curriculum Development/Distance Education Department
Confederation College of Applied Arts and Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6346

Fanshawe College
Fanshawe College offers distance learning courses in affiliation with the Institute of Municipal Assessors of Ontario. It also offers distance learning courses for those who wish to meet the technician or technologist certification requirements of the Ontario Association of Certified Engineering Technicians and Technologists. In addition, a range of mathematics and other technical courses is available on a home study basis. These courses require some tests to be written at the college.

Further information
Distance Learning Department
Fanshawe College of Applied Arts and Technology
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4439

Humber College
Humber College offers early childhood education programs through distance education for students living in areas with no access to early childhood education training. The programs are based on the first year of the two-year programs. Humber College also offers distance education in occupation safety/hygiene and telecommunications.

Further information
Continuous Learning
Humber College of Applied Arts and Technology
Box 1900
Rexdale, Ontario
M9W 5L7

Northern College
The Kapuskasing campus offers an independent and distance-learning program leading to a two-year business administration diploma. Twenty courses are required to complete the diploma program. Students may select courses from a general business administration program or may concentrate in the travel and tourism option.

Each course consists of a study guide and a textbook. Some courses have videotapes. Two courses are available in French.

Tuition fee is $90 per course, plus the cost of a study guide and textbook. There is a refundable deposit for videotapes.

Further information
Centre for Independent Learning and Correspondence Courses
Kapuskasing Campus
Northern College of Applied Arts and Technology
3 Aurora Avenue
Kapuskasing, Ontario P5N 1J2
Telephone (705) 335-8504, ext. 9

Seneca College
The Continuing Education Division offers a building environmental systems course through correspondence study. This course is designed specifically for persons employed in the servicing of large office and/or apartment building complexes. Examples of subjects covered are pipe systems and water treatment.

Further information
Registrar
Seneca College of Applied Arts and Technology
1750 Finch Avenue East
Willowdale, Ontario M2J 2X5
Telephone (416) 493-4144

St. Lawrence College Saint-Laurent
St. Lawrence College Saint-Laurent at Kingston offers a 15-week correspondence course in family home day care.

Further information
Human Studies Department
St. Lawrence College Saint-Laurent
King and Portsmouth
Kingston, Ontario K7L 5A6
Telephone (613) 544-5400

St. Lawrence College Saint-Laurent at Brockville offers a diploma program in registered nurse – occupational health nursing. This program consists of seven courses available through correspondence and a field work assignment that can be completed at the student's location.

Further information
St. Lawrence College Saint-Laurent
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

• Universites Offering Correspondence Courses/Distance Education
The variety of university subjects that may be studied by correspondence is limited, and the number of credits that can be obtained is usually less than that required for a degree or diploma. This means that, at some point, those who take correspondence courses in order to earn a degree or diploma may have to attend regular classes.

The University of Waterloo, Queen's University, and Laurentian University, because of the range of courses available through the correspondence format, are able to grant degrees through courses taken entirely by correspondence. Because students are not attending classes on the university campus, there is little or no direct interaction with other members of the class or with teachers, and the use of the university library is limited. However, most universities will attempt to contact students who are experiencing extreme difficulty, and some institutions offer weekend seminars two or three times a year to assist with problems. Most universities also provide reading lists to facilitatae the use of alternative resource centres.

University correspondence courses are usually closely tied to the normal academic calendar. Admission requirements, tuition fees, and academic standards are similar to those for regular students.

Academic programs by correspondence may be pursued over an extended period of time, but the normal workload per term is usually a maximum of two courses. Students may, in most cases, combine and/or alternate correspondence work with regular attendance, in compliance with the individual institution's residence requirement for the granting of a degree.

Each course normally requires a final exam that counts as a percentage of the final grade. These are written at a major centre close to students' homes or in isolated areas under the supervision of a responsible person appointed by the university.

Students who wish to take correspondence courses at one university for credit toward a degree at another institution should consult the particular institutional authorities. Some universities may not recognize correspondence courses as credit toward a degree.

Correspondence courses are also offered by universities throughout Canada, credit for which may be accepted by an Ontario university granting a degree.

For more information on courses, application procedures, and types of credit granted, students should consult the individual institutions.

Carleton University
Degree credit courses are offered through television (ITV) over local cable channel 15. They resemble on-campus courses in content and requirements and are drawn from the faculties of arts, social science, science, and architecture. Courses are carefully selected to provide a range of disciplines that could be accredited to several certificates and degree programs. However, it is difficult to obtain a degree through enrolment only in ITV courses. Enrolment is open to anyone holding the necessary course prerequisite and is not contingent upon admission to a degree program.

Every effort is made to make distance study available in other centres. Outlying cablevision companies carry selected ITV courses, and for students who live outside the areas receiving the cablevision signal, videotapes of courses can be sent to groups of students prepared to register. Enrolment and the return of completed assignments in ITV courses can be conducted through the mail. Although students are asked to come to campus for final examinations, alternative arrangements can be made for special cases. An adviser is available for telephone consultation to help distance education students with course-related concerns.

Courses begin in September, January, and May, and enrolment deadlines, academic regulations, and fees are published in the Carleton University calendar.

Further information
School of Continuing Education
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3500

University of Guelph
Guelph's School of Continuing Education consists of five divisions: general studies, continuing education, independent study, distance education, and international training.

The General Studies Division is responsible for administering the general studies program, which allows mature students to take degree credit courses on a full- or part-time basis. This division works closely with the colleges to develop and promote evening programs of study.

The Continuing Education division of the school provides non-traditional learning opportunities for those who are not interested in pursuing degree studies and who have specifice educational objectives. Courses and programs cover a broad spectrum of learning needs. Generally, and with the exception of the certificate programs, continuing education courses have no entrance requirements, prerequisites, or examinations.

The community education program is designed primarily for adult learners in the Guelph area and surrounding communities. Opportunities are afforded for adult learners to pursue leisure interests, improve skills, broaden understanding and awareness, meet other adults with similar interests, and generally to use and enjoy "their" university.

The professional development program is related to the academic interests and research scope of the university. Certificate programs include French as a second language, personnel administration, human resources management, communicaation, and managing people at work.

The Independent Study Division, with the support of the Ontario Ministry of Agriculture and Food, offers courses through correspondence in agricuture and horticulture. Several agriculture courses in French are available

through Independent Study's Teleformation department. These are diploma-level courses, as well. Stand-alone education videotapes are also provided by the division.

The International Training Division provides short, intensive training programs for international students and agencies in both on-campus and off-campus locations.

The Distance Education Division facilitates the delivery of several degree credit courses to students, who are typically off-campus. The division is the focal point of this activity, providing information, student support, course preparation, and administration. The correspondence courses available at the degree level include consumer law, English, financial accounting, human sexuality, introductory psychology, land economics, management accounting, organic chemistry, pathology, personal and family finance, philosophy, political studies, psychology of death and dying, and statistics. Although an entire degree is not available through correspondence, students are able to benefit by taking coures from some of the unique departments of this university.

Further information
School of Continuing Education
Room 142, Johnston Hall
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-1330

Lakehead University
Lakehead University's distance education program is designed to meet the needs of students in the region who are unable to attend classes on-campus or at one of Lakehead's off-campus locations. Students receive a learning package consisting of audio or video cassettes with accompanying notes, guides, and visual aids. In addition, courses are supported by audio teleconferencing, telephone tutorials, or group seminars. Students requiring playback equipment for audio, video or computer programs are able to use learning centres at access sites in communities across the northwest.

Degree credit courses in the arts and sciences are offered. There are plans to develop courses and programs in areas such as tourism, nursing, and environmental assessment. Off-campus courses are offered during the spring and summer sessions at centres throughout northwestern Ontario.

Students who wish to take correspondence or off-campus courses from Lakehead University must meet general admission requirements.

Tuition fees for distance education courses (1988/89): Undergraduate part-time students (Canadian citizens and landed-immigrants), full course $285, half course $146; part-time students on student visas, full course $1 059, half course $532.

A $40 refundable deposit is required for the audio-visual materials, payable at the time of registration. This deposit will be fully refunded once the Distance Education office receives the materials back from the student (in the condition in which they were delivered).

Canadian citizens and landed immigrants who have reached their 60th birthday are invited to enrol in credit courses with no tuition or activity fee.

Further information
Distance Education
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8210
Toll-free (Ontario, Manitoba, and Saskatchewan): 1-800-465-3909

Laurentian University
Laurentian University's distance education program, *Envision*, offers about 140 courses, including correspondence, television (on TV Ontario and/or Mid-Canada Communications), video cassettes in 25 learning centres, and teleconferencing, and more are planned. The distance education courses are all credit courses counting toward a university degree. Manuals outline the course requirements and assignments.

Students may complete entire degree programs in arts (B.A.), Native social work, and nursing (post-R.N. B.Sc.N.). In the arts degree, concentrations are available in law and justice, psychology, religious studies, and sociology. Nursing courses within the B.Sc.N. program are open only to admitted registered nurses, but biology and chemistry courses may be taken by any student. Certificates in law and justice, family life studies, and human sexuality are also available entirely through distance education.

Continuing-education students may take courses either by day or by evening during the winter, or attend the evening spring session or the six-week summer session. Laurentian University also offers courses in some 20 centres throughout northeastern Ontario, where students may pursue their university programs.

Laurentian offers the post-R.N. B.Sc.N. program in Sault Ste. Marie, North Bay, Timmins, Barrie, Orillia, and Parry Sound/Bracebridge, with secondary sites in Elliot Lake, Kapuskasing, New Liskeard, and Kirkland Lake. The full degree is granted. Registered nurses interested in the program should write to the Centre for Continuing Education for more information.

Students who wish to take correspondence or television courses from Laurentian must first obtain general admission to the university. The university waives tuition fees for senior citizens (60 years of age or over) enrolling in credit courses.

Distance education courses generally involve readings and regular assignments throughout the term. Senate regulations stipulate that at least 25% of the final mark is to be determined by supervised examinations that include a mandatory final evaluation upon completion of the course. Examiners are provided by the university, and every effort is made to see that students do not have to travel long distances to reach an examination centre. The university, however, cannot guarantee that this will always be the case for each individual. Teleconferencing courses bring together students at several locations at the same time, using regular telephone lines.

Tuition fee per course is $304, plus incidental fees of $11.50 per course and instruction fees of $26 per course for television and correspondence courses.

The Government of Ontario has announced a Northern Ontario distance education access network, Contact North/Contact Nord, to broaden the number of educational opportunities at secondary and postsecondary level to the residents of the North. The network includes teleconferencing facilities, microcomputers, video playback equipment, and information libraries at the following Northern Ontario communities: Atikokan, Chapleau, Dryden, Elliot Lake, Espanola, Fort Frances, Geraldton, Hearst, Hornepayne, Iroquois Falls, Kapuskasing, Kenora, Kirkland Lake, Manitoulin Island (West Bay), Marathon, Mattawa, Moosonee, Nõelville, North Bay, Red Lake, Sault Ste. Marie, Sioux Lookout, Sturgeon Falls, Sudbury, Thunder Bay, Timmins, and Wawa. In addition, the government has also made available monies for the development of distance education programs such as the B.Com. and B.A. in psychology in French.

Further information (correspondence courses)
Centre for Continuing Education and Part-Time Studies
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3930

Further information (admission requirements)
Office of Admissions
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3915
Toll-free 1-800-461-4030

McMaster University
The Centre for Continuing Education offers correspondence courses in human services (certificate) and addiction studies (diploma). No other correspondence programs are offered at McMaster University. The human services certificate is designed to help develop knowledge and skills in the human services field. A number of specializations are available. Fees for the 1989-90 academic year are $150 per course.

Persons aged 65 and over may register without payment of a fee.

It is recommended that students take no more than two full subjects in one study period. Students who wish to take more than two subjects must secure permission

from the Centre for Continuing Education. A brochure is available upon request.

Further information
Human Services Program Co-ordinator
Centre for Continuing Education
Commons Building, Room 116
McMaster University
Hamilton, Ontario L8S 4K1
Telephone: (416) 525-9140, ext. 3328

University of Ottawa
The University of Ottawa offers a number of correspondence courses, both in English and in French. Not more than five (six-credit) correspondence courses can be applied toward a degree at the University of Ottawa. The remaining courses must be taken in residence at the university, on either a full- or part-time basis.

Following the sessional dates of the regular academic calendar, correspondence students may not normally take more than eight months to complete a full course. Evaluation for correspondence is normally by final examination immediately upon completion of the course.

Tuition fees are $282 for a full course and $141 for a half course.

Further information
Correspondence Division
University of Ottawa
165 Waller St.
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2393

Queen's University
Each Queen's University correspondence course counts as a credit toward a degree in the same way as does the equivalent course given on campus. It is possible to complete the 15 courses required for a three-year bachelor of arts degree with a minor concentration in German, politics, or psychology entirely through correspondence study. However, not all courses required for all concentrations are offered by correspondence; therefore, it will be necessary in some instances for a student to attend classes on campus to complete the degree requirements.

Each correspondence course is based on a study guide consisting of (1) an introduction giving students pertinent information concerning textbooks, materials, and a general outline of the course, and (2) a series of lessons, varying in number according to the course, which must be completed and returned for correction and grading in the appropriate academic department. Correspondence courses require a final examination; some also require progress tests.

Admission requirements to the correspondence program are the same as the regular admission requirements for the university. Students are urged to register in correspondence courses by September 1, although registrations will be accepted up to September 10. The Division of Part-Time Studies cannot guarantee that registrations accepted after September 1 will be cleared in sufficient time for the student to receive the course outline, order books, and then begin the course on schedule. Only one correspondence course may be taken by students who have not previously completed university courses.

Tuition fees ($282 per correspondence course) cover registration, lectures, laboratories, use of the libraries, grading of examinations, the final examination, and telephone privileges.

Fees are waived for all persons 65 and over who register for credit courses.

Further information
Admissions Officer
Division of Part-Time Studies
Faculty of Arts and Science
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

Open College/Ryerson
Open College, the educational service of radio station CJRT FM, 91.1, offers students convenient alternatives to classroom study. Students may take courses by radio, audio cassette, or correspondence.

A tutor is assigned to help students with the course material. During each course there are weekend seminars conducted at Ryerson. These sessions give students a chance to talk with instructors, tutors, and other students. Course assignments are mailed in to Open College, and mid-term and final examinations are written at Ryerson.

Two certificate programs at Ryerson, gerontology and public administration, are offered at a distance by Open College. Many Open College courses are accepted for credit at Atkinson College, York University.

Other universities may accept Open College courses for degree credit. Students are advised to contact the university in which they are enrolled to see if credit will be granted before registering in an Open College course.

Further Information
Open College/Ryerson
297 Victoria St.
Toronto, Ontario M5B 1W1
Telephone (416) 595-0485

University of Waterloo
Several undergraduate degrees in arts, environmental studies, and science can be obtained completely by correspondence from the University of Waterloo. Special pre-university courses are also available.

University of Waterloo correspondence courses use audiotape cassettes, printed course notes, textbooks, and other visual materials where required. These, together with assigned problems, are prepared by the professor to explain and supplement material provided in the texts.

Most of Waterloo's correspondence courses are the one-term half-credit courses, comprising approximately 20 taped lectures of 40 minutes' duration, each with accompanying lecture notes. Students generally take two half-credit courses per term, although they may take from one to a maximum of five half-credit courses per term.

There is no limit to the time that may be taken to complete a degree on a part-time basis. However, students earning degrees on a part-time basis will be treated in the same manner as full-time students: no student will be allowed an indefinite number of failures while accumulating the course credits required for a degree.

Credits toward degrees
Unless otherwise stated, all of the following may be taken entirely by correspondence, or as a combination of correspondence, regular, and summer courses.

Faculty of Arts
General non-major B.A. degree; general B.A. with a major in classical studies, economics, English, geography, history, philosophy, psychology, religious studies, social development studies, or sociology. Each degree requires 30 term courses, the equivalent of a three-year degree when taken full-time on campus.

A four-year general B.A. in history is also available, as well as an honours B.A. in classical studies. Each of these degrees require 40 term courses, the equivalent of a four-year degree when taken full-time on campus.

Correspondence students are required to pass the English Language Proficiency Examination, which is written after completion of 15 of the 30 term courses required for a general bachelor of arts degree.

Faculty of Environmental Studies
Bachelor of Environmental Studies (Geography)

Requires 30 term courses, the equivalent of a three-year degree when taken full-time on campus. An honours non-specialized B.Sc. is offered under certain conditions.

Faculty of Science
Bachelor of Science (general, non-major)

Requires 30 half credits, of which at least 15 must be science half credits, the equivalent of a three-year program when taken full-time on campus.

Pre-university courses
Correspondence learning packages are available in chemistry, mathematics, and physics for students who wish to qualify for university level courses but do not have the necessary high school prerequisites. The pre-university courses are non-degree, non-credit courses, which can be used to gain admission to degree programs at the University of Waterloo.

The courses are designed to span four months; however, students may study at

their own pace. Two examinations must be taken, one at the mid-point and one at the end of the course unless otherwise stated. A student may begin at any time and apply to write the examinations when ready.

The tuition fee for pre-university chemistry and physics courses is $170 *each*, plus a deposit of $40 for each tape. For the mathematics course, which is divided into algebra, calculus, and functions, the tuition fee is $57 *each*, plus a deposit of $20 for each tape (tape deposits are refundable upon return).

Normally, University of Waterloo correspondence courses are not available to people with mailing addresses outside Canada and the United States.

Tuition fees are $170 for each half-credit course, plus a deposit of $40 for each tape.

Further information
Correspondence Office
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4050

University of Western Ontario
The University of Western Ontario offers correspondence courses in arts, science, and social sciences during the winter and summer sessions.

To be eligible for a correspondence course at Western, students must be admitted to Western or have a letter of permission from another university. Summer correspondence students must also have successfully completed at least one other university-level course. Correspondence courses are open to residents of Canada and, during the fall-winter session only, to Canadian citizens living abroad.

Students may take ten of the courses required for a B.A. by correspondence; the remainder must be completed either on campus or at an off-campus centre. Students may take a maximum of one full course (or equivalent) by correspondence during the summer session and two full courses (or equivalent) during the fall-winter session, subject to the regulations governing maximum course loads.

Students registered at other universities may request permission to take correspondence courses at the University of Western Ontario for transfer of credit toward their home university. Students who wish to take courses in this manner must obtain a letter of permission naming the specific courses from the registrar of their university.

The tuition fee for all credit courses is approximately $296, payable at the time of registration.

Further Information
Correspondence Supervisor
Faculty of Part-time and Continuing Education
University of Western Ontario
London, Ontario N6A 5B8

For students who wish to take correspondence courses but who have not previously attended Western, application forms are available from
Department of Admissions and Academic Records
Stevenson-Lawson Building
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2150

Wilfrid Laurier University
Telecollege university degree credit courses can be completed by television or in designated communities by teleconferencing. Part of a Telecollege course is a series of half-hour or hour-long lectures on television or two hours by teleconference. Other parts of the program include a textbook, study guide, resource binder, and in some cases audio cassettes.

Instructors co-ordinating Telecollege courses are available during specified office hours to accept toll-free calls to answer questions about the course. Most courses are supplemented through the use of teleconferencing in off-campus locations.

Information on tuition, study kit costs, broadcast availability, and air times for television courses, as well as other details, are outlined in the part-time studies calendar, or by calling 1-800-265-8866 toll-free – ask for Telecollege.

Further information
The Office of Part-Time Studies and Continuing Education
75 University Avenue West
Waterloo, Ontario N2L 3C5

University of Windsor
The University of Windsor offers several courses by distance education. These courses consist of printed materials, (texts and study guides) and may also include some combination of audio tutorials, video programs, and/or other media materials. While audio programs are usually sent to students, video programs may be broadcast or placed in local libraries in Windsor, Chatham, and Sarnia. Students can reach their professors by telephone; some courses have occasional class meetings.

Further information
Ms. Margaret Landstrom
Assistant Director
Division of Continuing Education
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 253-4232 ext. 3305

• Registered Private Vocational Schools
There are a number of private vocational schools in Ontario, registered under the Private Vocational Schools Act, that offer correspondence training. These schools aim to provide practical training in the skills employers demand.

Private correspondence schools are helping to fill the need for vocational training for those unable to attend regular classes.

The activities of these institutions in terms of course offerings, length of training, and fee per course vary a great deal ($100 to $5 000) depending on the nature of the courses offered and the resources available to each private school. Some of the courses consist of a combination of residence and correspondence instruction, the residence portion usually comprising the latter part of the course.

The section *Registered Private Vocational Schools* in this publication contains a directory list of all the private vocational schools registered in Ontario. Section 2 lists programs available by correspondence. The code numbers accompanying each course listing refer to the schools in the directory list that offer that course.

• Independent Learning Centre (Ministry of Education)
The Independent Learning Centre provides an opportunity for Ontario residents to complete a primary or secondary education by mail. A program from Grade 1 to Grade 13 is offered in both English and French.

Applicants may enrol at any time, proceed at their own pace, and receive an OSSGD, OSSHGD, or OSSD whenever requirements are met. All courses are free, although students must purchase Grade 13 textbooks.

Counselling is available to advise applicants and enrolled students about appropriate programs. Also, a telephone tutorial service assists those who encounter difficulties in their courses.

The Independent Learning Centre designs elementary school courses for children who are unable to attend an Ontario school or are temporarily living outside Canada. However, most students are enrolled in secondary courses; they are largely mature adults who wish to earn a diploma, gain employment skills, complete admission requirements for a postsecondary institution, or satisfy personal goals. Some adults enrol while they are temporarily absent from the province, and some full-time secondary school students supplement their day school programs through this service.

All courses are prepared from the same Ministry of Education guidelines as those used by Ontario secondary schools. Thus, certificates and diplomas are equal in value to those issued by schools. Over 80 000 Ontario residents study each year through these Ministry of Education courses.

Further information
Independent Learning Centre
909 Yonge Street
Toronto, Ontario
M4W 3G2
Telephone (416) 965-2657
Toll-free 1-800-268-7065

• Accountancy Courses
Certified General Accountants Association of Ontario and the Society of Management Accountants of Ontario offer correspondence courses that, upon graduation, lead to the designation Certified General Accountant (CGA) and Certified Management Accountant (CMA) respectively.

Through the CGA Association, a course of study is offered in such management studies as financial management, information systems, and controllership. The program of study is primarily by correspondence, supplemented by lectures in different locations throughout the province.

The course is offered nationally, and all subjects are identical in each province.

For further information on the CGA program of study, on admission requirements and on the organization, please refer to the section on the CGA Association in this publication.

The Society of Management Accountants of Ontario offers a professional education course designed specifically for the field of management accounting in business and government. Available by correspondence or evening lecture, this five-level study program leads to the designation CMA. The CMA course teaches the concepts and techniques of management accounting, law, statistics, and other relevant areas of financial management.

For further information on the society, the admission requirements and on the courses required, please refer to the section on the Society of Management Accountants of Ontario in this publication.

The Institute of Chartered Accountants of Ontario offers correspondence courses in taxation and law to students registered with the institute. Information on these courses, and how they fit into the overall CA qualification requirements, can be obtained from the institute.

In addition, the University of Waterloo offers correspondence courses in introductory financial accounting, advanced financial accounting, auditing, computer science, quantitative methods, economics, law, and management. Please contact the university for more information about these courses.

For further information on the institute and the qualification requirements for becoming a chartered accountant, please refer to the section on the Institute of Chartered Accountants of Ontario in this publication.

Toronto Institute of Medical Technology
Correspondence courses are offered in many health-science and general-interest subjects at the refresher, R.T., and post-R.T. levels. Students may enrol in correspondence courses at any time during the acadmic year.

Further information
Divison of Part-Time Studies
Toronto Institute of Medical Technology
222 St. Patrick Street
Toronto, Ontario M5T 1V4
Telephone (416) 596-3117

Facilities for Students with Special Needs

Ontario Colleges and Universities

Public postsecondary institutions in Ontario have made efforts to accommodate the requirements of students with special needs. Both universities and colleges have increased the accessibility of on-campus postsecondary education.

In recent years many new buildings have been designed to be accessible to the physically disabled and, where possible, older buildings are being modified with ramps, accessible washrooms, and other special facilities.

Some institutions have more complete facilities than others, but all are willing to make arrangements, where possible, for individuals with special needs. Residence facilities can be arranged at most universities and at a few of the colleges, and specially designated parking areas are available at most institutions. In general, recreational facilities that can accommodate special needs students are limited. The availability of special study aids and resource materials varies from school to school, and students are advised to consider carefully what special study facilities are available when selecting the institution they wish to attend.

Print-Handicapped Students Attending Postsecondary Institutions
The Resource Services Library of the W. Ross MacDonald School in Brantford, Ontario, is the co-ordinating agency for providing tape and braille materials to Ontario print-handicapped students who are registered in courses at publicly supported postsecondary institutions or approved registered private vocational school programs. Every postsecondary institution has an appointed contact person who will assist print-handicapped students and help them secure the required texts and other material. For further information, contact the Resource Services Library, W. Ross MacDonald School, by telephoning (519) 759-0730.

• Colleges of Applied Arts and Technology

Algonquin College
Algonquin is committed to integrating students with special needs into all facets of its academic life. Although all facilities are not yet accessible, the college is continually making improvements. Applicants should inform the college of their special needs during the admission process to allow the college to arrange reasonable academic accommodation before the starting date of classes. Prospective students are encouraged to visit the college and to contact the Special Needs Co-ordinator

Algonquin College of Applied Arts and Technology
1385 Woodroffe Avenue
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606
Toll free 1-800-267-7061 (Ont., Que., N.B., N.S., P.E.I.)

Cambrian College
Cambrian's campus is completely accessible to wheelchair students. Parking is available close to the main entrance for physically disabled students who drive themselves to and from the college. For others a drop-off and pick-up spot is located next to the main door. Arrangements can be made for the use of an elevator key. Two of the three elevators are keyed. A room is available for overnight charging of wheelchair batteries. This room is also suitable for storing books and outdoor clothing. Telephones for use by wheelchair students are located throughout the building. There are also adjustable telephones for the hearing impaired.

A physician is on campus five half-days a week. In addition to providing normal health-care services, the physician is prepared to take care of out-of-town students who need ongoing medical treatment. The placement office will assist students with special needs in their search for employment. There is an Association for Disabled Students (ADS), which provides opportunities for students to meet and share concerns, plan activities and projects, and liaise with the rest of the college on matters pertaining to students with special needs. Membership in ADS is $2 per year and is open to both disabled and non-disabled students. Anyone wishing to become a member should contact the Students Administrative Council, (705) 566-8101 ext. 226, or Kim McConnell at 673-1225.

Physical-demands analyses have been done for each college program and are readily available to individuals and agencies through the OACIS computer program in the counselling office. A city-operated handi-transit system provides transportation to and from the campus. The college has established a special needs centre for students and permits the use of seeing-eye dogs for blind students. Special programs are provided for severely disabled adults who wish to pursue future employment and/or postsecondary education. In addition to seeking the general assistance available throughout the college, students may seek specific assistance from their department chairman, counselling services, or the Association for Disabled Students.

The library offers a service for blind students. Textbooks can be translated on either tape or braille.

The Support Programs Department offers programs to meet the academic requirements of special needs students; the Health Services Department tends to their special medical needs. The Counselling Centre and the learning disabilities co-ordinator

also provide vital support systems/services. A physical-needs assessment inventory of individual courses and an inventory of aids is also available to students. For more information contact
Chairman, Support Programs
Cambrian College of Applied Arts and Technology
1400 Barrydowne Road
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101 ext. 7793

Canadore College
Canadore's College Education Centre in North Bay is equipped with an elevator and modified washrooms accessible to physically disabled students. Some telephones are at wheelchair level. Designated parking facilities and electronic doors assist entry to the main campus. Some residences are wheelchair accessible. Career, academic, and personal counselling and assistance are available for special needs students. For more information contact
Special Needs Co-ordinator,
Student Services
Canadore College of Applied Arts and Technology
P.O. Box 5001
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 126
Toll-free 1-800-461-7340

Centennial College
At Centennial, special needs counsellors at each campus provide career, academic, and personal counselling for students with special needs. All college buildings are accessible and have at least one accessible washroom per floor. As well, there are specially designated parking spaces for those who require them. For more information contact
Dave Robertson
Special Needs Consultant
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 3279

Conestoga College
Applicants should contact the campus they wish to attend, because the accessibility to Conestoga's facilities and the support services vary according to the campus location. Each campus offers a variety of facilities to accommodate special needs students, including reserved parking spaces, ground-level entrances that make the college fully accessible, special washrooms, and a service elevator at the Doon Campus that provides access to the cafeteria and to classrooms on the third and fourth floors. The facilities at the Cambridge, Guelph, and Waterloo campuses are accessible to special needs students. The Kenneth E. Hunter Recreation Centre is designed to accommodate special needs participants and spectators. For more information contact the Student Services Office at any of the five campus locations, or
Manager, Special Needs Office
Conestoga College of Applied Arts and Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 748-5220 ext. 420

Confederation College
Confederation's facilities for students with special needs include reserved parking spaces, ramps, special washrooms, and service elevators for access to the cafeteria and the above-ground floors. The college's residence and fitness centre are designed to accommodate the physically disabled. Special services and equipment may be arranged according to individual requests. For more information contact
Associate Registrar
Confederation College of Applied Arts and Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
Northwestern Ontario residents can call toll-free 1-800-465-6961 or 465-6962

Durham College
Durham's special needs co-ordinator will work with each student to determine how individual needs can be met. Prospective students are encouraged to contact the co-ordinator as early as possible concerning their intention to attend Durham College. Academic and tother accommodations can then be arranged before starting classes.

The college has made every attempt to ensure that its facilites are accessible. Reserved parking, ramps, stairlifts, elevators, accessible washrooms, electronic doors, volume-controlled phones, and FM hearing systems in the large lecture theatres are just some of the facilities available.

Medical services (health nurse and doctor one afternoon a week) are available for all students and a rest area is provided by Health Services. Peer tutors, notetakers, and readers can be accessed as needed; supportive counselling and advocacy is available on an ongoing basis. Students may access word processors, and the computer-assisted learning centre provides hardware and software suited to individual needs.

Questions or concerns about the learning and/or physical demands of any of our programs should be directed to the
Special Needs Co-ordinator
Durham College of Applied Arts and Technology
2000 Simcoe St. N., Box 385
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210 ext. 364

Fanshawe College
Fanshawe's main campus is accessible to wheelchair students, and special parking spaces close to the buildings can be reserved for those who inform the Parking Office of their needs. Five elevators are strategically located to help students move from floor to floor, and most of the washrooms are accessible. The city provides Para-Transit transportation to persons with mobility problems.

Applicants are invited to identify their special needs early in the application process so that their accommodation needs can be evaluated. The Student Services department, including Health Services, offers counselling support and health-related services to students. Interviews and a tour of the facility can be arranged for special needs applicants upon request. The college has some special equipment, and additional improvements to accessibility and the acquisition of more equipment are in progress. All students have access to the English and Math Learning Centre and the Peer Tutoring Program. A Peer Assistance Program is offered to students who require extensive assistance. For further information, contact the
Special Needs Co-ordinator
Student Services Department
Room A2010
Fanshawe College of Applied Arts and Technology
1460 Oxford Street East
London, Ontario N5V 1W2
Telephone (519) 452-4282

George Brown College
Some buildings at George Brown are equipped with elevators and special washrooms for students with special needs. The college offers a unique program for the deaf, Headstart for the Hearing Impaired, which includes pre-registration survival lectures, special guidance into regular classes, and tutoring, counselling, and interpretive services. As well, sports facilities for the hearing impaired are available. Special parking arrangements can be made. For more information contact
Student Services
George Brown College of Applied Arts and Technology
P.O. Box 1015, Station B
Toronto, Ontario M5T 2T9
Telephone (416) 967-1212 ext. 2321

Georgian College
Georgian College provides most special equipment and services upon individual request. Four buildings have ground-level accessibility, and the College Services Building has an elevator and special washroom facilities.

Once students are admitted to a Georgian College program, every effort is made to accommodate their individual needs. The college recognizes that some students may require specialized assistance. To receive such assistance students are encouraged to contact the college's special needs co-ordinator in the Student Services Department.

Questions or concerns about physical and/or learning demands of any program should be directed to
Linda Doyle
Special Needs Co-ordinator
Georgian College of Applied Arts and Technology
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951
Toll-free 1-800-461-9696

Humber College
Humber College's North Campus is equipped with ramps, reserved parking spaces, a "drop-off" location, modified washrooms, and an elevator, making it accessible to wheelchair students. Lakeshore campus is accessible and is equipped with an elevator to the second floor, and modified washrooms are available. Queensway, Osler, and Keelesdale all have entrance ramps and converted washrooms, and Keelesdale has a reserved parking space. At the Lakeshore and North campuses, a front-end assessment process has been established for applicants who self-identify disabilities. This includes an analysis of a program's physical demands and of the functional capabilities of individuals. Following this analysis, the possibilities of a match between student and program are discussed by an admissions committee. At this stage, the aids and devices that could supplement the student's functional capabilities are also investigated as part of the admissions process. For more information contact
Associate Registrar
Humber College of Applied Arts and Technology
3999 Lakeshore Blvd. West
Toronto, Ontario M8V 1K8
Telephone (416) 252-5571
or
Associate Registrar
North Campus
Humber College of Applied Arts and Technology
205 Humber College Blvd.
P.O. Box 1900
Etobicoke, Ontario M9W 5L7

Lambton College
Lambton's campus is equipped with ramps, elevators, automatic doors, special telephones and drinking fountains, and modified washrooms. Reserved parking spaces and an on-campus residence that can accommodate students with special needs are also available. In addition, Lambton has developed special learning resources material in certain fields. College staff help students who require tapes and readers to locate various sources of information. For more information contact
Registrar
Lambton College of Applied Arts and Technology
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751 ext. 295

Loyalist College
Loyalist is accessible to special needs students. Physical accommodations include preferential parking, automatic door openers at main entrances, ramps, and a key-activated elevator. The college has a full-time co-ordinator of special needs. Support services offer a wide range of technical devices to meet the needs of a variety of groups, including the hearing-impaired, low-vision/blind, mobility-impaired, and learning-disabled. A Computer Resource Centre is available for students with special needs to receive academic support ant tutoring; counselling, advocacy, and job placement services round out a comprehensive program for students with special needs..

Students are encouraged to identify special needs when they are admitted, so that support services can be established before classes begin. A one-week summer orientation program for students with special needs is available to help students become familiar with the resources available at the college. For more information contact
Catherine Miller
Co-ordinator of Special Needs
Loyalist College of Applied Arts and Technology
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 962-9501 ext. 204

Mohawk College
Most of the buildings at Mohawk are accessible and equipped with ramps, a large elevator, and special washrooms. Residence facilities are not available, but housing assistance is provided by the College Housing Office. Priority in parking is given to special needs students. For more information contact
Rachel Thachuk
Manager, Special Needs
Mohawk College of Applied Arts and Technology
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2292

Niagara College
Niagara has a Special Needs Office staffed by a counsellor and an assistant. Services to students can be provided after individual consultation with, and assessment by, the special needs counsellor. Niagara is retrofitting its physical facilities wherever possible; special parking, ramps, and special washrooms are now in place. Students should contact the Special Needs Office as soon as possible so that their needs can be addressed immediately. For more information contact
Victoria Maugain
Special Needs Counsellor
Niagara College of Applied Arts and Technology
Woodlawn Rd., P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 496

Northern College
Students with special needs are frequently accommodated at Northern on an individual basis. Instructors, in co-operation with the chairperson, attempt to revise or alter teaching or testing methods to suit the circumstances of the student.

Mr. R.C. Mack, chairman of community services (telephone (705) 235-3211), is the contact person for students with special needs and future program needs. He has become involved with students experiencing difficulties by providing direction and support and identifying services that may be employed. Mr. Mack also works in close collaboration with the staff of Student Services.

In order that special needs may be addressed and accommodated, students are encouraged to identify the exceptionality on the application form. The prime responsibility for the identification of a need lies with the student.

Health care services are available for all students, and on some campuses registered nursing personnel offer assistance with routine activities such as personal hygiene. A rest area is also provided in the health unit.

Peer tutoring services operating out of the counselling department are offered to all students, and note-takers and readers are recruited when a need is identified. Hearing-impaired students registered on a part-time basis in a credit course have access to the following services: sing-language interpreter, note-taker, and FM system.

Residence facilities are not available; however, the adviser works with sponsoring agencies to provide special equipment and services. Parking facilities are available. The Kapuskasing campus provides accessible washroom facilities, parking, and ramps. The Kirkland Lake Campus can also accommodate wheelchair students; however, the Haileybury campus and the James Bay Education Centre have no special facilites. For more information contact
Dean of Student Services
Northern College of Applied Arts and Technology
Highway 101, P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211 ext. 233

St. Clair College
Individuals with special needs are encouraged to contact Richard Evans, manager of special needs services, to discuss the physical and academic demands of programs and the adaptations that can be made to assist students. Those who may require special assistance should inform the Special Needs Services office as soon as possible. Some types of accommodation require significant lead-time to implement.

The campuses of the college are equipped with ramps, elevators, accessible washrooms, amplified pay telephones for the hearing impaired, automatic doors, and other accommodations for students with

special needs. In addition, health services and counselling services are available for all students.

Tutors, note-takers, taped texts, and other services are available for students who have an identified and proven need. Designated parking spaces are available at all campus locations; however, persons using these places must have either a wheelchair logo on their license plates or a municipally issued parking permit displayed on the dashboard of their cars.

Speech- and hearing-impaired persons can contact St. Clair by telephone. Anyone who has a teletype (TTY) or telephone device for the deaf (TDD) can call (519) 966-0053 from 8:30 a.m. to 10 p.m.

The physically disabled and those unable to board city buses may take advantage of Handi-Transit Buslines. The service must be reserved two weeks in advance for curb-to-curb transportation at the rate of $1.25 each way; contact Handi-Transit Buslines, 3737 Walker Road, Windsor, Ontario N8W 3S9 (phone (519) 966-0930). For more information contact
Richard Evans
Manager, Special Needs Services
St. Clair College of Applied Arts and Technology
Windsor, Ontario N9A 6S4
Telephone (519) 966-1656 ext. 528

St. Lawrence College Saint-Laurent
Students with special needs are encouraged to contact Student and Campus Services at the Brockville, Cornwall, or Kingston campuses for information and assistance. Students will need to know the physical demands of a chosen program, and what adaptations can be made for visual, hearing, or mobility impairment, learning disability, developmental handicap, or other special needs.

If students need taped material, they should inform the staff when receiving confirmation of acceptance, so that the materials will be ready for the start of classes. Students are expected to complete the requirements of a chosen program. The final responsibility for successful adaptation is theirs. Some modifications in testing and teaching/learning methods will be undertaken, if feasible and appropriate, after consultation with college staff.

All campuses are equipped to provide basic services for the special needs student, including washrooms, telephones, ramps, automatic doors for wheelchair and mobility impaired individuals, movable desks, and reserved parking areas.

The Kingston Learning Resource Centre has some large-print books. Brockville has a visualtek located in the library, a visualtek DP-11 in the computer lab, and a portable visual ear. Cassette recorders and study carrels are available on the three campuses. All campuses offer sign language courses to interested students.

Before students start their program, Brockville campus offers a Headstart Program for students with special needs. For more information contact
Exceptional Student Project
St. Lawrence College Saint-Laurent
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

Sault College
Sault features ramped and curb-cut entrances, modified washrooms, and elevator access keys for those who have difficulty negotiating stairs. Cassette recorders, peer tutors, and note-takers are also available. Computer learning equipment is available through the Learning Assistance Centre. Housing facilities are not available. Special parking facilities are available to provide easy access to campus buildings. For more information contact
Registrar's Office
Sault College of Applied Arts and Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 949-2050 ext. 700 or
Counselling ext. 703
Toll-free 1-800-461-2265

Seneca College
Students with special needs should contact the Special Needs Office as soon as possible if they will require assistance. A comprehensive range of academic support services, learning aids, and reasonable accommodations and/or program modifications can be arranged to accommodate individual student needs.

Seneca's numerous campuses offer varying degrees of physical accessibility to mobility and sensory-impaired students, including modified washroom and locker facilities, ramps, reserved parking spaces, and modified telephones. For more information contact
Special Needs Office
Seneca College of Applied Arts and Technology
Newham Campus
1750 Finch Avenue East
North York, Ontario M2J 2X5
Telephone (416) 491-5050 (voice),
491-0468 (TDD)

Sheridan College
Sheridan's emphasis on helping students succeed includes helping those with special needs. Most buildings at the college are equipped with ramps, elevators, accessible washrooms, and reserved parking spaces. Counselling and support programs are avaialble for students with physical, emotional, and learning disabilities. Sheridan's Health Services can advise and/or refer students with special medical needs. Students are encouraged to contact the Special Needs Office well in advance of registration. Arrangements for special services may be made on an individual basis. For more information contact
Special Needs Office
Counselling and Career Services
Sheridan College of Applied Arts and Technology
Telephone (416) 845-9430 ext. 718,
459-7533 ext. 205 (Brampton)

Sir Sandford Fleming
The Brealey and Frost facilities of Sir Sandford Fleming are accessible with ramps, elevators, and special washroom facilities. The McDonnel facility, an older building, provides washroom facilities and limited ramp access on main floors. The continuing education program at the McDonnel and Frost campuses offers courses in sign language. For more information contact
Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
School of Natural Resources
Frost Campus
Box 8000
Lindsay, Ontario K9V 5E6
Telephone (705) 324-9144
Toll-free 1-800-461-0340

Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
Sutherland Campus
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5500
Toll-free 1-800-461-6423

• Universities

Brock University
Brock has taken steps to ensure that most of the campus is accessible; wheelchair ramps, elevators, and modified washroom facilities are available. Special permits allow priority parking, and a transit system for those with special needs is provided by the City of St. Catharines.

The university library is equipped with braille and cassette dictionaries, braillers and paper, a braille typewriter, a talking calculator and book machine, reel-to-reel and cassette recorders, two visualteks, and various magnifiers. Study carrels are available to all special needs students.

A hydraulic lifting wheelchair is provided in both the library and the science complex; chemistry labs and a computer terminal have been modified for the physically disabled. The pool in the physical education centre is equipped with a hydraulic floor to provide easier access.

Students for whom special arrangements are advisable, or those who would like more information and a copy of the brochure, *Disabled Student Services at Brock University*, should contact the co-ordinator for disabled students.

L A. Towe
Associate Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

Carleton University

Mobility Impaired
Carleton's campus is well equipped to accommodate physically disabled persons. The buildings are close to each other and are connected by tunnels. All of the main buildings have elevators and are ramped for outside entrance and egress. Many sidewalks have been made accessible by recent curb-cut renovations. An accessible washroom exists at the tunnel entrance to Paterson Hall.

Residence Program for the Severely Disabled
A limited number of special needs students are admitted into the Carleton residence program for the severely disabled each year. Admission to the program is based upon the need for attendant care service, the availability of space in an accessible room, whether or not the applicant has housing alternatives within the Ottawa area, and the date of application. (For further information regarding application to the program, contact the co-ordinator or Mrs. Judy McDonald in the Housing Office, (613) 788-5612.)

Visually Impaired
A study room in the library has been designated for special needs students' use. Room 304 in the MacOdrum Library has equipment for the visually impaired. Enabling equipment includes two visualtek large-print readers, a brailler, and a computer terminal with printer and DECTALK synethesized voice components.

Hearing Impaired
Personal FM systems and an auditorium FM sound system are now available for loan to hearing-impaired students at Carleton. Arrangement for borrowing this equipment is made through the co-ordinator, and a refundable $10 deposit is required.

The co-ordinator also acts as liaison for the educational support services program. The program provides interpreter service, professional note-takers, and FM Systems for eligible part-time students.

Learning Disabled Students
It is recommended that learning disabled students have a psychological assessment conducted so that university staff may provide services that address each individual's learning disability.

Students seeking help with their learning disability and/or information about Carleton University's policy for the learning disabled should contact the co-ordinator.

Accessibility and Resource Guide
A new accessibility guide for students with special needs is prepared for distribution each calendar year. For further information contact the co-ordinator.

NEADS
The National Educational Association of Disabled Students' administrative office is now located at Carleton. Inquiries regarding this new national association can be made to Frank Smith, Room 502, Unicentre, (613) 233-5963, or to the
Co-ordinator for the Disabled
Room 500, Unicentre
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-6689 or Counselling Services, 564-2808

Disabled Students Resource Centre
A new resource centre for disabled students has been funded by CUSA in Room 502, Unicentre. The centre is staffed by two part-time co-ordinators, and is open from 9 a.m. to 5 p.m. Monday to Friday, and at least one evening each week. Inquiries are welcomed at (613) 564-3768.

University of Guelph
The co-ordinator for disabled students will discuss any concern on the part of disabled students and liaise with faculty and academic counsellors on specific needs and requirements that the student may have. For students with learning disabilities, a learning skills counsellor is available to offer assistance, provide informal assessments, liaise with faculty and make appropriate referrals for assessment and counselling where necessary.

The main entrance of the university library is ramped and the turnstiles will permit passage of wheelchairs. Full-sized graduate study carrels equipped with lockers are provided. Washroom facilities are available in the basement. Braille books, large-print books, and tapes required for course use can be obtained for print-handicapped students. Study rooms, where readers may read directly to the student, or record material are also available. For more information contact
Co-ordinator for Disabled Students
Counselling and Student Resource Centre
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120 ext. 3244, 3245

Lakehead University
Students who are sight or hearing impaired or who have other physical disabilities are encouraged to contact the Director of Student Services for information and assistance. All newer buildings at Lakehead are accessible, and older buildings are being modified with ramps and curb cuts. Residence buildings, rooms, washrooms, and athletic facilities such as the gym, weight room, pool, and change rooms are wheelchair accessible. The City of Thunder Bay provides Handi-vans for use by special needs students. Permits for special parking areas are also available. For more information contact
Director of Student Services
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8149

Laurentian University
Laurentian has increased accessibility for students with special needs by providing ramps, electronically operated doors, and special washroom facilities. Special parking areas are available. At t. › Physical Education Centre, the olympic pool has a hoyer-lift, and the showers and pool have support bars. The library provides necessary reading material, obtaining it from existing sources (the Ross Macdonald School in Brantford, commercial publishers, and other universities) and taping books and articles. Library staff members can assist students by reading parts of books, preparing bibliographies, etc. For more information contact the Co-ordinator of Student Services, (705) 675-1151 ext. 1030.

Nipissing University College's Education Centre in North Bay is equipped with ramps, elevators, and washrooms accessible to physically disabled students. Special parking areas are also available. However, residences are not wheelchair accessible, and special equipment and services are limited. For more information contact
Information Officer
Nippissing University College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450 ext. 2327

McMaster University
The university's provisions for the physically disabled include curb cuts, ramps leading into a number of the buildings, ramps within buildings, tactile elevator lettering in major teaching buildings and libraries, a vertical chair lift in the Burke Science Building, accessible washrooms in teaching buildings, learning aids in the library facilities, keeping guide dogs for the sight- or hearing-impaired in the residence, readers on request from the volunteer bureau, and special stickers for all parking zones. The library will also make arrangements for taped textbooks, and library staff will assist special needs students with research and other academically related services. Classes can be relocated to accommodate mobility--impaired students, and personal course timetables are prepared to suit the student. Special examination arrangements can be made. Each faculty has a person responsible for making any special academic arrangements, and an Amity Goodwill

bursary available to students with physical disabilities. For more information contact
Co-ordinator for the Disabled
Room 108B, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4339

University of Ottawa
Entrances, elevators, telephones, and washrooms cater to the needs of most disabled. As soon as the student is admitted, he or she should contact the Centre for Students with Disabilities to discuss particular needs and obtain the support required in adjusting to university life.

A team of doctors and nurses tend to the medical care of all students on campus. Medication prescribed at the service is provided free of charge to full-time students. The clinic is open from 8:30 a.m. to 5 p.m. Monday to Friday. For after-hours emergencies, students can dial the service's number, and a doctor will return their call.

The housing service offers specially equipped rooms in residence. To obtain one of these rooms, students should make arrangements in advance by contacting the accommodation officer.

Special needs students should inquire at the beginning of the school year about special services available at all campus libraries; staff will do their utmost to ensure the ready accessibility of these services. Morisset Library and the new Health Sciences library are equipped with ramps and pose no access problems. The Morisset also has the following special equipment: a braille typewriter, a Perkins braille transcriber, and an Optiscope magnifier.

The parking division can offer disabled students a parking space that is as close as possible to the building they visit most often.

The personnel of the placement service will be happy to help the disabled student find a job. The federal government runs many interesting job programs for the physically disabled. (Placement Service, University Centre, Room 312, (613) 564-3381)

Through Sports Services, students can take up a number of recreational activities and make use of the Montpetit sports facilities. The personnel at Sports Services are most happy to look after the needs of users with special needs.

The Co-ordinator of Services for Students with Disabilities recruits volunteers who help disabled students with readings, note-taking, research work, and moving about on campus. For more information contact
Co-ordinator of Services for Students with Disabilities
University of Ottawa
University Centre
85 University, #315
Ottawa, Ontario K1N 6N5
Telephone (613) 564-5053, 564-5054

Queen's University
Students with special needs are encouraged to contact the Co-ordinator of Services for Disabled Persons, who will discuss with them what their requirements are and what changes are necessary so that obstacles to their participation in programs of their choice can, if possible, be overcome.

Students with special needs are given priority in admission to residence. Both the men's and women's residences have rooms that are wheelchair accessible. One room in the women's residence has a visual alarm system. Reserved parking spaces are available.

If a student who is wheelchair bound has classes in a building that is not accessible, the university will try to relocate the class or improve the existing access.

There is a small room in the library for students who have a visual disability and who rely on tapes and braille material. It is soundproof and equipped with a four-track tape recorder and brailler. Some braille reference books are available. Other library equipment includes large-screen catalogue terminals, catalogue terminals at desk height, a visualtek low-vision reader, and a four-track playback tape recorder, available on loan.

The university library maintains liaison with the audio programs at Trent University, the CNIB, etc. through the W. Ross Macdonald School. These programs tape reading material for sight-impaired post-secondary students. They also serve those with learning disabilities and others who cannot use print materials. There is also a reading service available at the library.

A Kurtzweil data entry machine is available at computing services for students with a visual impairment who wish to have printed material put onto a computer disk.

Arrangements can be made for students to have extra time to complete examinations and course work, and for examinations to be prepared in tape or braille form. An amanuensis will be provided for students who can not write or type final examinations. There are support groups for students with learning or physical disabilities. A survey of wheelchair accessibility to Queen's University buildings is available to all currently registered students. For further information contact
Judy Lux
Co-ordinator of Services for Persons with a Disability
72 Queen's Crescent
Queen's University
Kingston, Ontario K7L 3X3
Telephone (613) 545-6566

Ryerson Polytechnical Institute
Most Ryerson buildings are accessible by wheelchair, and several provide special facilities that accommodate wheelchair users. The library also provides a number of extended services for students with special needs. Neill-Wycik College, a student co-op residence, is accessible by wheelchair and provides special arrangements for the disabled, depending on specific needs. Ryerson's main parking lot reserves parking spaces for the physically disabled.

The Toronto Transit Commission provides special transit service for handicapped individuals; several other van services also operate within the city.

Ryerson's Student Services Department will provide detailed information on services and facilities for special needs students. A complete list of transportation services in the City of Toronto is also available. Student Services representatives are available to help students become acquainted with the campus and assist them in completing the registration process. For further information contact
Director of Student Services
Ryerson Polytechnical Institute
350 Victoria St.
Toronto, Ontario M5B 2K3
Telephone (416) 979-5187

University of Toronto
A Co-ordinator of Services to Disabled Persons can provide, upon request, liaison with academic and administrative departments and information and referral concerning facilities and services on- and off-campus.

Carrels in the Robarts Library are reserved for students with special needs and/or volunteer readers. Magnifying devices and tape recorders are available at the three campuses. In addition there is a brailler and a typewriter on the St. George campus. A library resource person in the Robarts Library provides liaison between the various on-campus libraries and with the W. Ross Macdonald School, the provincial co-ordinating agency for the provision of printed materials in alternative formats (tape, large print, or braille). Other equipment available includes personal amplification devices for hearing-impaired persons and computer hardware and software for visually-impaired and learning-disabled students. The co-ordinator acts as liaison for the Educational Support Program, administered by the Canadian Hearing Society for hard-of-hearing and deaf part-time students.

The university has published *A Guide for Disabled Persons* and two brochures, *Hearing Impairments* and *Learning Disability*. The office produces a monthly newsletter. For more information contact
Eileen Barbeau
Co-ordinator of Services to Disabled Persons
214 College Street
University of Toronto
Toronto, Ontario M5T 2Z9
Telephone (416) 978-8060 (also TDD)

Trent University
Most special needs are easily accommodated at Trent. Learning-disabled students are granted academic concessions and

have regular access to the Academic Skills Centre. Hearing-impaired and deaf students have access to either professors' notes or notetaker services. One main lecture hall is equipped with an infrared system, and receivers are available through the co-ordinator for the disabled. Books on tape are readily available for many courses, and others are read through the Ontario Audio Library situated on campus. Blind students may request a guide until routes to classes have been learned.

Trent was designed as a walking campus. The main campus spans the Otonabee River and is augmented by two downtown sites. The mobility-impaired are strongly urged to visit Trent for a complete tour of the facilities. HandiVan service is available through the city transit service and is arranged on an "as required" basis. Many physical accommodations have already been made and others are under way. However, Trent is still a restrictive environment for mobility-impaired individuals. For more information contact
Lynn Storey
Co-ordinator for the Disabled
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1384

University of Waterloo
Students with special needs attending the University of Waterloo have access to door-to-door van service called Project Lift, which is provided by the City of Waterloo. All buildings have at least one ramped entrance. Most buildings have accessible washrooms or are linked to a building that does. Student housing has wheelchair-accessible rooms. Students with special needs are given housing priority and may request an in-residence trial period to evaluate their living conditions. Both libraries are wheelchair-accessible and provide rooms where students may work with readers, tape information, or listen to tapes. A brailler and special micro-reader lenses are available.

A Centre for Sight Enhancement with up-to-date technical equipment, including a Kurzweil reading machine, has been established in the optometry clinic to aid visually disabled students.

The Co-ordinator of Services for Disabled Persons will help special needs students gain access to campus services and facilities. For more information contact
Co-ordinator of Services for Disabled Persons
Florence Thomlinson
Needles Hall
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4635
TTY/TDD (519) 888-4044 (non-voice)

University of Western Ontario
At Western, most sidewalks have curb cuts, special parking provisions are made for drivers using wheelchairs, most buildings have accessible entrances and elevators, and the city Paratransit system can be used to travel to and from the campus. There are three accessible co-ed residences and two residence apartments equipped to accommodate physically disabled students.

Western has a senate policy requesting students with disabilities to notify the Co-ordinator for Disabled Students, before the beginning of the term, of their particular needs so that accommodations can be considered. The university operates a computer braille facility that gives visually impaired students access to computing facilities and allows them to prepare essays and write exams via a braille or large-print terminal. Study rooms containing a print magnifier, word processors, and four-track tape recorders are available in the main library for students with disabilities.

Some campus pay phones have been modified for the benefit of hearing-impaired students. There are two TDDs on campus for enhanced communication with the hearing-impaired. An FM system is available for emergency loan. Additional services may be made available for these students upon request.

Counselling and Career Development Services offers counselling support for students with special needs. This department also houses a resource centre, which deals with most aspects of disabilities. The university has an ombudsperson who acts on behalf of students with special needs, and there is student support group on campus. For further information contact
Susan M. Weaver
Co-ordinator for Disabled Students
Room 32, University Community Centre
The University of Western Ontario
London, Ontario N6A 3K7
Telephone (519) 661-2147 (voice and TDD)

Wilfrid Laurier University
The Central Teaching Building, the library, and the arts, student services, and Frank C. Peters buildings are accessible. The student union building is partially accessible. Classroom and examination assistance is provided, as is reserved parking. Requests for special assistance of any kind should be directed to the
Office of the Dean of Students
Wilfrid Laurier University
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2319

University of Windsor
The Office of Student Affairs is the point of contact for all special needs students at the University of Windsor. This office provides early registration and pre- and post-admission counselling and referral for academic, financial, career, and personal matters. The office can also assist in providing notetakers and attendant care workers, and with particular course arrangements (alternatives to written examinations and assignments, extra time for exams, readers and transcribers for exams, and special exam space) with the consent of faculty.

Of particular interest to the mobility impaired: most buildings on the main campus are accessible, and three residence halls (Cartier, MacDonald, and Laurier) have rooms modified for wheelchair access.

Of particular interest to the visually impaired: legally blind students registered with the CNIB may obtain a tuition waiver, audio cassettes of textbooks can be loaned through the Leddy Library, a volunteer reader service is available, and four-track tape recorders are available in Student Affairs.

Of particular interest to some learning impaired: audio tapes of textbooks can be loaned through the Leddy Library.

The university provides psychometric testing for students with learning disabilities to assist in their educational decisions. For more information on the above please contact
Steve Gill
Assistant to the Dean
Office of Student Affairs
University of Windsor
Windsor, Ontario N9B 3P4
(519) 253-4232 ext. 3288

York University
York University provides ramped entrances and exits to most buildings, numerous sets of electronic door openers, adapted washroom facilities, and designated parking spots in key locations. The Office for Students with disabilities advises, assists, and informs students with physical disabilities of a wide range of services. These are: advising students on academic, legal, and financial issues, providing mobility tours/orientation, advising pre-university and new students, providing volunteers to assist students with reading, note-taking, as readers/writers for tests and examinations, mobility assistance, and advice on housing arrangements. Students with disabilities will receive priority in undergraduate and graduate residence, providing that applications are made early.

Two study rooms have been set aside in the Reserve Library for disabled students' use, and one room is equipped with an Apple IIe computer and printer. Linda Hansen, in the Reserve Library, is available to assist students with book aquisitions and materials on tape and/or braille. The centre has also purchased several technical aids and devices: a Perkins brailler, a visualtek reader, a four-track cassette player. A Dectalk (providing computerized voice synthesis) for persons with visual impairments is available in the Scott Library. Several TDDs and FM systems for persons with hearing impairments, an ergometer (exercise equipment), and a pool lift to assist persons with mobility difficulties are also available.

In addition to offering its own services, the centre's staff can refer students to a broad

range of general services and professionals in such areas as the writing workshop, study/learning skills, personal counselling, and financial aid. For further information, please contact:
Office for Students with Disabilities
Room 101, Behavioural Sciences Bldg.
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone Voice (416) 736-5140 (voice), (416) 736-5263 (TDD)

The Learning Disabilities Program provides a range of specialized services to students with learning disabilities. The program may provide or co-ordinate psycho-educational diagnostic assessments; advice on courses and programs for learning-disabled students; remedial and/or tutorial assistance; life-skills, career, individual, group, and/or family counselling; advocacy regarding alternative means of evaluation; and education of staff and faculty regarding learning disabilities. There may be a fee charged for some of these services. For more information contact
Learning Disabilities Program
Dr. Marc Wilchesky, Co-ordinator
Room 112, Behavioural Sciences Building
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5297

• Other Institutions

Ontario College of Art
OCA has access via a lift for physically disabled students into its 100 McCaul Street building and an accessible washroom on the main floor. The campus at 149 College Street has a ramp and elevators throughout. Although the college does not offer any special programs for disabled students, it does offer a program through Industrial Design for students who wish to design educational aids and utensils for mentally and physically disabled people. In addition, OCA is committed to accommodating visually impaired and disabled students whenever possible within its existing academic programs. Individuals may make inquiries through the Office of the Senior Adviser. For more information, contact the
Office of the Registrar
Ontario College of Art
100 McCaul Street
Toronto M5T 1W1
(416) 977-5311

Horizons and Tour d'horizon are now available in an 11" x 17" format. Please write or telephone the W. Ross Macdonald School for the Blind and Deaf, a Provincial Centre for the Visually Impaired, 350 Brant Avenue, Brantford, Ontario N3T 3J9, telephone (519) 759-0730.

Native Studies

This section concentrates on postsecondary courses that may be of particular interest to both Native and non-Native people who wish to improve their appreciation of Native society and cultures. For Native students, this section also serves as a guide to special opportunities for completing or complementing postsecondary education.

The courses of study described here are offered by Ontario colleges of applied arts and technology and Ontario universities and include programs developed to meet specific needs of Native people. Certain adult-training and apprenticeship programs that Native people have found particularly useful for improving their employment prospects are also outlined in this section.

The *Native Studies Programs* section details programs that may be valuable for those who want employment in community, social, and correctional services, or in Native and band council associations and businesses dealing with or within Native communities.

Special College of Arts and Technology Programs

• Band Management
Confederation College
The objective of this four-semester diploma program is to develop competent graduates who have acquired skills, knowledge, and awareness applicable to management positions in Native, non-Native, or government communities. Graduates may expect to be reasonably informed on current Native issues and be able to act as resource persons on a variety of topics within the Native community.

For further information contact the Supervisor of Native Programs, Confederation College, P.O. Box 398, Thunder Bay, Ontario P7C 4W1. Telephone (807) 475-6278 or 1-800-465-6961.

• General Arts and Science – Native Social Services Aide
Sault College
This four-semester program meets the needs of rural and urban human services agencies and Native communities. Students gain a broad base of skills. Native studies include the history of Native peoples in Ontario and the study of relevant legislation. A supervised field-work placement is provided.

• General Arts and Science – Native Studies
Cambrian College
This one-year postsecondary program has been specifically designed for Native students who wish to pursue a more general postsecondary education before committing themselves to a specific career path.

This program will give students a solid foundation for pursuing postsecondary education; provide an opportunity for Native students to relate their identity and heritage; provide an opportunity for students to take Native studies subjects; and help students prepare themselves in English, mathematics, and science for further training.

Prerequisite: mature students – applicants who lack the minimum academic prerequisites but who are at least 19 years of age will be considered on an individual basis; or OSSD or its equivalent.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 418.

• General Arts and Science – Native Skills Training
Cambrian College
This postsecondary program consists of a common first semester, followed by three semesters in a skills training program of the student's choice. The common first semester consists of the following areas of study: English 1050-4, math 0100-4, life skills NTS 1140-9, computer literacy 100-4. The subsequent three semesters will consist of a skills training program of the student's choice in the following areas: drafting, food preparation, heavy-duty equipment mechanic, industrial maintenance mechanic, machine shop, welding, carpentry, masonry, cabinet making, clerk typist, accounting assistant.

Admission requirements: the minimum requirement for admission to a postsecondary program is an OSSD (30 credits), or an OSSGD (27 credits), its equivalent, or mature student status.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 418.

• General Vocational Preparation
Confederation College
The curriculum of this two-semester program is designed for Native students seeking entry and skill development towards registration in a college career program. This program also attempts to meet the cultural needs of Native students.

For further information contact the Supervisor of Native Programs, Confederation College, telephone (807) 475-6278 or 1-800-465-6961.

• Indian Economic Development
Confederation College
The Indian economic development and band management programs share a common first year where basic subjects and subjects of common interest are studied. During the second year, students specialize in their chosen field. The program is designed to provide students with an in-depth understanding of the role of small business in the economic growth of small

communities. Graduates of this program will have a thorough grasp of the role of business and community development and viability.

For further informatidoan contact the supervisor of Native Programs, Confederation college, telephone (807) 475-6278 or 1-800-465-6961.

• Law and Security Administration – Native Justice Education
Cambrian College
This program prepares graduates for employment in areas of the criminal justice system where sensitivity to Native culture, aspirations, and issues is desirable. The program meets the requirements of the recognized law and security administration – police education component and is enhanced by strong course offerings in Native studies. Employment opportunities are varied and exciting. Graduates will possess the knowledge and skills to obtain employment with a variety of organizations and agencies (both Native and non-Native) in the criminal justice system, or to pursue further postsecondary education.

Admission requirements: the minimum requirements for admission to the program is an OSSGD (27 credits at the general or advanced level); or equivalent as determined by the college and completion of a program-specific questionnaire. The program is limited to an intake of 30 first-year students for semester 1. Because applications will greatly exceed the number of places available, the selection process will be competitive. A criminal record may be a serious impediment to employment in any field related to a law and security administration program.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 418.

• Native Child and Family Worker
Cambrian College
The Native child and family worker program is a new five-semester program. This is a limited-enrolment program; 35 students will be accepted. It provides an opportunity for Native students to develop the necessary skills to seek employment in the human services field. Students enrolled in the program will gain an understanding of the Native family and the Native community. They will be equipped to provide services to children and/or their families in a Native or non-Native setting and to organize band-based programs.

Admission requirements: the minimum requirement for admission to a postsecondary program is an OSSD (30 credits), or an OSSGD (27 credits), its equivalent, or mature student status.

For further information contact Mrs. Marie Tincombe-Shaw, Chairman, Wabnode Institute, Cambrian College, telephone (705) 566-8101, ext. 418.

• Native Child and Family Worker
Confederation College
The purpose of this five-semester program is to develop effective helpers whose primary job interest is working wih Native children/adolescents and their families. The recent thrust in the field of Native child welfare is preventative as well as rehabilitative. The workers are now assuming the role of a family support agent, with the focus on maintaining the child in his or her own home or community. The provincial government is aware of the need to establish Native child welfare alternate models. Also, Native organizations recognize the need to create Native child and family services at the urban community and local reserve levels.

For further information contact the Supervisor of Native Programs, Confederation College, telephone (807) 475-6278 or 1-800-465-6961

• Native Education (co-op)
Georgian College
This program is proposed for delivery on reserve through the Barrie, Orillia, and Owen Sound campuses. A one- or two-year program, Native education qualifies graduates for positions in Native government, business management, or social services. The program is based on a foundation in literacy, numeracy, and computer skills, as well as an understanding of Native traditions and values. Upon completion of the foundation courses, students have three options available: self-government and band management, business and tourism, and community and social development.

Admission requirements: OSSD with 30 credits at the general level or equivalent, with standing in English at Grade 12 (general level). Applicants must complete a program admissions questionnaire and will have the opportunity to attend an information sharing session with program personnel. Applicants who are 19 years of age or over and who lack the academic entrance qualifications may be considered for entrance as mature students.

For further information contact the Registrar's Office, Georgian College, telephone (705) 722-1511 or toll-free 1-800-461-9696.

Financial Assistance
Detailed information on financial assistance may be obtained from the financial aid administrator of the institution or from:
Student Awards Branch
Ministry of Colleges and Universities
P.O. Box 4500
Thunder Bay, Ontario
P1B 6G9
Telephone (807) 345-4830
Toll-free 1-800-465-3013

Adult Training and Apprenticeship Programs
Manpower programs are offered by training centres that are generally operated through the colleges of applied arts and technology. The adult training and apprenticeship programs include programs specifically designed for or adapted to the needs of Native people. Information regarding the adult training programs is handled by representatives of the colleges of applied arts and technology who are in contact with chiefs, band councils, locals, and individuals within the communities. Program information is also provided by the province for circulation through all Canada Employment centres.

Adult training programs are provided for persons wholly sponsored by the provincial and/or federal governments, for partially sponsored students, and for those who wish to pay their own fees and seek financial assistance through the Ontario Student Assistance Program (OSAP). Information on sponsorship can be obtained from Canada Employment centres, social counsellors, band councils, and the Department of Indian Affairs and Northern Development.

Almost 300 adult training and apprenticeship programs are currently offered, and a list can be obtained from the colleges of applied arts and technology or from the College Affairs Branch of the Ontario Ministry of Colleges and Universities. Many programs can be made available on the reserves. Programs requiring special facilities, however, are not offered outside established training centres.

• Specific Employment Programs for Native People
Several programs have been established in partnership with the Canada Employment and Immigration Commission to promote employment prospects for Native people. These programs are offered through established training centres and may be offered on a reserve, where feasible.

Academic Upgrading
Academic upgrading concentrates on the communications, mathematics, and science required to obtain and hold employment or to enter a skill program that leads to employment. Generally, individualized instruction is available so that the students may start at any time during the program and proceed at their own rate of learning. Life skills may be used in academic upgrading to assist the student to overcome earlier learning problems. Some programs are directly oriented to Native students and are taught on the reserves.

Appliance Servicing
Mobile teaching services will be taken to the reserves to teach Native people appliance servicing, with an emphasis on the use of propane gas.

Band Management
An "outreach" approach to band management has been developed by Confederation College.

Basic Water-Treatment Operation
An introduction for operators to the fundamentals of plant operations. The course covers such topics as bacteriological, physical, and chemical characteristics; coagulation and flocculation; sedimentation; water filtration; and chlorination. Offered at Northern College.

Building Custodian (Certified)
Northern College has adapted the College Affairs Branch urban program for janitors to be employed by band councils for their schools located on Indian reserves.

Cabinet Making and Fine Woodworking
Northern College can train Native students in cabinet making and fine woodworking. Graduates may find employment in custom furniture manufacturing, commercial cabinet making, and interior finishing.

Clerk/Typist
Northern College adapted this College Affairs Branch urban program to train Native people to be employed by band councils, Department of Indian Affairs and Northern Development offices, Hudson's Bay stores, and small businesses. Skills taught include typing, bookkeeping, basic accounting, stenography, and secretarial and clerical expertise. Short business and commerce courses can be moved from one small community to another.

Carpenter, Construction Trades, and Trades Helper
These urban programs have been modified to suit reserve locations, available materials, etc. Confederation College, Georgian College, Northern College, and Sir Sandford Fleming College have been prominent in this training area. The Apprenticeship Branch has made some concessions in the area of compulsory apprenticeship for carpenters, electricians, and plumbers when the training is to be put to use on the isolated reserve in order to improve living conditions. If the Native person wishes to leave the reserve, he/she would have to register as an apprentice in a particular trade before these skills could be put to use. Abatements or credits would be granted for the training.

Health Care Aide, Nursery Aide, and Nursing Assistant
These programs are standard. Generally speaking, the Native person has to leave the reserve for training in order to have the necessary clinical facilities available. Upon graduation, employment may be available at hospitals located near the reserves.

Heavy-Equipment Operator – Single Machine or Multiple Machine (eight pieces)
These courses are offered by Northern College to train Native students in the safe operation and maintenance of such equipment as bulldozers, loader scrapers, graders, tandem trucks, and excavators. Graduates will find employment on road-building, water main or sewer construction, and earthmoving projects.

Indian Economic Development
Available as a two-year, four-semester diploma program.

Logging and Small-Sawmill Operator
This program is offered at Canadore, Confederation, and Northern colleges in accordance with need.

Marine and Small-Powered Equipment Mechanic
Confederation and Northern colleges have offered this program extensively. Training has ranged on occasion from 16 weeks to the full 40 weeks. On occasion, the Department of Indian Affairs and Northern Development has provided tools and a workshop, which are left in place for the use of the graduates when the program has been completed. Emphasis generally has been on snow-machine and outboard-marine repair and maintenance. This program is offered in accordance with need.

Native Community Care: Counselling and Development
This two-year Mohawk College diploma program is designed to help students study, understand, and develop skills that will help them become confident and able community health care workers in both local and cross-cultural situations. Students may specialize in community care, substance abuse, or mental health options.

Admission requirements: OSSD or equivalent; questionnaire. For further information, contact Mr. Ralph Scharf, Dean, Brant Campuses, (519) 759-7200.

Native Drug and Alcohol Counsellor
Students are taught to counsel Native people on the effects of alcohol on the community. This course is offered at Northern College. The graduates of this program will be hired in private or public social agencies, community developments, and band counsellor areas.

Small-Boat Construction, Repair, and Maintenance
Developed originally by Cambrian College for Manitoulin Island, this program has since been revised by the James Bay Educational Centre at Moosonee. Native craft construction is the main aspect, but the program also provides for the local repair of boats and thus holds down cost and time delays for such repairs.

Small-Business Management
Confederation and Northern colleges offer a postsecondary program for small-project developers to provide the managerial skills required to design, organize, and implement community programs. Sir Sandford Fleming College also provides training in small-business management, intended to result in the development of Native community-centred enterprises and employment.

Water-Distribution System Operation and Maintenance
A course intended to upgrade the knowledge and skills of the water-distribution system staff. The program covers such topics as water sources and treatment; water quality and problems; basic hydraulics; watermain appurtenances, pipes and joints; leak detection and fire-flow testing; breaks and repairs; cleaning, disinfection, and testing; corrosion; and plans and records. Offered by Northern College.

Water-Plant Preventive Maintenance
A course intended to provide basic maintenance and trouble-shooting skills to inexperienced water-treatment plant operators. The program covers such topics as maintenance of piping and valves; pumps; packing and seals; bearings; lubrication; Stanby power units; motors; drawings and equipment manuals. Offered by Northern College.

Courses Available at Colleges of Applied Arts and Technology

• Applied Arts

Durham
Canadiana

• Continuing Education (Part-time – general interest)

Cambrian
(Espanola)
Aerobic fitness
Babysitter training
Bookkeeping
Cooking for kids
CPR
First aid
French as a second language
Introduction to accounting
Introduction to IBM PCs, Lotus 1-2-3; Wordstar
Low-impact aerobics
Ojibway
Personal typing
Postnatal aerobics
Small-engine repair
Teenage aerobics
Universal gym

(Little Current)
Babysitter training
First aid for kids
Karate
Lotus 1,2,3
Standard first aid

(Massey)
Aerobic fitness
Babysitter training
Farm animals–selection and care
Job search
Ojibway
Peaches and cream grooming sessions
Universal gym

Yoga for fitness

(Webbwood)
Low-impact aerobics

(West Bay, Mindemoya, Providence Bay)
Basic cardiac life support
Dancercize
Introduction to Native art
Introduction to word processing

(Gore Bay, Kagawong)
Flower arranging
Heart-saver plus
Photography

(Manitowaning, South Baymouth, Wikwemikong)
Babysitter training
Basic cardiac life support
Bookkeeping
Furniture making
Knitting and crocheting

Confederation
Conversational Ojibway
Cultural awareness
Supervisory skills

Sault
Hairstyling
Introduction to Ojibway
Native people of Ontario

• Manpower Retraining, Industrial Training, and Apprenticeship (Full-time – adult training)

Cambrian
(Espanola)
Academic upgrading: levels 1 to 4
Health-care aide
Home support

(Sudbury)
Community health representative program

(West Bay)
Academic upgrading: levels 1 to 4
Carpentry
Masonry

(Wikwemikong)
Academic upgrading: levels 1 to 4
Basic job readiness training
Carpentry
Community health representative program
Masonry

(Little Current)
Dining room service
Food preparation (basic)
Orientation to home support

Canadore
Band maintenance (68 weeks over three years)
Native alcoholism counsellor (40 weeks)
Specialized training programs for reserve occupations (planned under Canadian Job Strategies)

Centennial
For information on postsecondary programs, contact the college.

Confederation
Academic upgrading
Band management
Building construction and maintenance
Community health worker
Construction trades helper
English as a second language
Furniture building
Heavy-equipment service
Residential plumbing
Tourist outfitting and guiding

Fanshawe
Fanshawe offers a two-semester basic training for skill development – university and college entrance program for Native students. Entrance requirement is a secondary school graduation diploma. Students upgrade in mathematics, communications, and science.

Georgian
Georgian offers academic upgrading and some skill programs on various reserves in the region, and offers a Native education postsecondary program at Orillia and Christian Island.

Humber
Contact the college for information.

Lambton
Academic upgrading (levels 2, 3, and 4)
Band management

Loyalist
The Mohawks of the Bay of Quinte/ Tyendinaga Reserve is located in the region served by Loyalist College. Native students apply to and register in a wide variety of continuing-education courses, skill programs, and postsecondary programs. A full-time Native counsellor is available in the Student Services Department to assist all Native students in their transition to college.

Mohawk (New Credit Campus)
Basic job readiness training
Microcomputer operator
Full- and part-time courses are offered on the New Credit Reserve for residents of the three reserves in the Mohawk College area.

Northern
Academic upgrading
Alcohol and drug-abuse counsellor training
Business administration
Construction trades helper (plumbing and electrical)
Core program
Early childhood education
Fine arts and crafts
General vocational preparation
Native counsellor
Native fine arts and crafts
Native recreation worker
Native social service worker
Nursing (three-year diploma program)
Office administration
Ontario basic skills
Special constable
Word processing clerk

Sault
(Sault Campus)
Basic training for skills development
Cabinet making
Clerk typist
Computer maintenance technician
Computer program technician
Computerized accounting
Medical dicta typist
Microcomputer operator
Stationary engineer
Welding

(Wawa Campus)
Carpentry
Office systems

Seneca
Seneca College offers courses and programs of interest to Native students as well as having a Native Student Adviser, Bruce Berman (416) 491-5050. Examples of these programs are:
Academic upgrading
Audio-visual technician
Coaching techniques (gymnastics and figure skating)
College preparatory
Dental assisting
Design arts
Early childhood education
Government administration
Law enforcement
Outdoor recreation technician
Parks operations and services
Recreation facilities administration
Recreation facilities management
Tourist industry administration
Various business programs
Various secretarial programs
Various technology programs

Sheridan
Academic upgrading
English as a second language

• Social Services

Confederation
Cultural anthropology
Group-home management
Native alcoholism worker
Native community worker

Sault
Child care worker
Developmental services worker
Early childhood education
Native social services aide

Sir Sandford Fleming
Native economic development and small-business management

St. Clair
Basic job readiness training (Native)

Special University Programs

• Certificate Program in Journalism for Native People
University of Western Ontario
This is a three-term, twelve-month program that begins in September and covers a full calendar year.

Applicants for admission to the certificate program in journalism for Canadian Native people must meet the requirements of the University of Western Ontario. Applicants should note in particular the admission regulations governing mature students. Prospective students should have at least Grade 10 or equivalent, some experience in journalism, a commitment to working in the field of communications, and three letters of recommendation. Students are expected to be competent in English and may be required to furnish proof of their proficiency.

The deadline for completed applications is May 1.

• Law
University of Ottawa
Queen's University
University of Toronto
University of Western Ontario
University of Windsor
York University
All Ontario university law schools encourage applications from Native people in order to expand meaningful legal representation on their own behalf.

In order to ensure a reasonable chance of academic success, the law schools fully endorse the special pre-law summer orientation program for Native students at the University of Saskatchewan. Those who have not completed this program but show marked potential for advancement may be accepted.

Qualified status Indian students are eligible to receive the full range of financial support benefits provided by the federal Department of Indian and Northern Affairs, for both the pre-law and the law school programs. Similar assistance is provided for Métis and non-status Indian students by the federal Department of Justice.

• Native Nurses Entry Program
Lakehead University
The Native nurses entry program is a nine-month preparation program designed to provide the necessary skills and academic preparation required for successful completion of the four-year Honours Bachelor of Science in Nursing degree program. Applicants who may be considered for admission to the Native nurses entry program include:

1. Adult students: Applicants who are at least 21 years of age in the calendar year of entry, who are residents of Canada, and who have not attended postsecondary institutions (full time) for two years prior to their admission will be considered as adult students.

2. Extraordinary admissions: The university is prepared to consider applicants for admission who have been away from formal education for at least two years at any time for reasons beyond their control. Applicants will be interviewed by the registrar or a designate. Each case is considered on its own merits.

3. Health care workers (community health representatives and RNAs) who have successfully completed a minimum of Ontario Grade 10.

4. Individuals who have successfully completed at least one full year of study at the community college level in child care, community work, or a related field.

The applicant must be of Native ancestry.

• Native Studies Programs

Laurentian University
Laurentian University offers a general Bachelor of Arts program in Native studies through the Department of Native Studies of the University of Sudbury, which is federated with Laurentian.

The program is intended to acquaint students as fully as possible with the situation of Native people, especially those of Canada. To this end, studies range from pre-Columbian time, through the arrival of the Europeans to the present-day renaissance, and cover education, legal rights, language, the application of ancient insights to modern sociological and ecological problems, and twentieth-century aspirations.

The aim of the program is to bring the students into direct contact with the area being studied. Artifacts, films, tapes, and other audio-visual resources are used, oral literature is studied, and field trips are arranged. Representatives of the Native population are invited to take part in the program.

University of Toronto, Erindale Campus
Erindale Campus offers a major (three-year) program that examines the cultures of the past and present as well as the history and theoretical framework of the interaction of Native and colonizing peoples. The program is interdisciplinary, combining the courses and approaches of anthropology, history, sociology, and geography. It complements programs with a focus on North American studies, ethnic/racial history, and environmental studies. Students may pursue special interests through an independent study course.

Trent University
Trent University offers the following Native studies programs.

Diploma program: Intended for Native students who have Grade 12 or who would qualify for admission to Trent under mature student guidelines. Students may enrol in the Native studies or Native management and economic development diploma program. The program has three unique features: a six-week intensive summer course designed to prepare students academically, a light load during the regular school year, and intensive personal support throughout the program of study. The diploma is awarded after two years of successful study, and students who complete the program may transfer their credits toward a bachelor of arts degree.

Bachelor of arts degree: This three-year program is intended to provide Native and non-Native students with the opportunity to study aboriginal peoples from a unique interdisciplinary approach. Students wishing to major in Native studies are advised to consult the department for cognate courses in other disciplines such as anthropology, Canadian studies, and sociology. Single majors are required to take a minimum of six courses in Native studies over three years. Joint majors are required to take a minimum of five Native studies courses. Students may do an honours year in Native studies; single majors are required to do a minimum of nine courses over four years, and joint majors are required to complete seven in Native studies.

Graduate studies: The master of arts program is part of the Frost Centre graduate program on Canadian heritage and development studies. The Native studies component emphasizes community-based socioeconomic development, community development, Native history, government policy, or closely related topics.

• Social Work
Laurentian University
Social workers who work among Native people require a good understanding of the implications of culture, traditions, and values for helping individuals and communities that are experiencing difficulties. In addition, they need to have an understanding of the dominant social welfare system so that they can advocate for appropriate services to local communities and can serve the interests and needs of the Native populations. In response to these concerns, Laurentian University an honours bachelor of social work (Native human services) program.

• Sociology and Anthropology
Lakehead University
B.A. (Native studies, anthropology major). A study of Indian, Métis, and Inuit life in considerable detail.

• Summer Employment Program*
McMaster University
Trent University
University of Toronto
University of Western Ontario
This program is designed to acquaint Native secondary school students with the kind of environment in which they might find themselves if they decide to continue their

*Also offered at confederation, Fanshawe, Loyalist, Mohawk, Northern, Sault, Seneca, Sir Sandford Fleming, and St. Clair colleges of applied arts and technology.

studies at the postsecondary level, by providing meaningful employment for these students on a university or college campus.

The summer employment program for Native students offers the following advantages:
1) permits Native students to become familiar with a postsecondary institutional environment;
2) offers summer employment opportunities to Native students;
3) offers assistance to university and/or college staff by enabling them to hire summer help.

Sault College, in addition to offering Native student summer employment opportunities, has a postsecondary co-ordinator to help Native students and supervisors. The co-ordinator also administers special projects for the Sault College Native Student Assembly.

Note: The lack of contact and familiarity with the postsecondary institutional environment is a significant factor in Native students' not continuing their studies at the postsecondary level, even when they are academically qualified and financially able to do so.

• Teacher Education

Teacher education programs for Native people have been instituted at two universities in Ontario: Lakehead University and Laurentian University. These programs are intended to increase the number of Native teachers. Also, skilled teachers of Native ancestry will be of great assistance in responding to the needs of children in the schools in Native communities.

Lakehead University

Lakehead University offers a four-year undergraduate program in teacher education for Native people. Students enrol in a concurrent program, Bachelor of Arts (General) – Bachelor of Education (Native Education), which is intended to increase the number of qualified Native teachers in northwestern Ontario and to prepare them to meet the special social and cultural needs of Native communities. Graduates will be recommended for an Ontario Teacher's Certificate. Lakehead University also offers a Native Language Instruction Program, designed for individuals who will instruct either (a) individuals whose first language is Algonquin or (b) individuals whose Native language is a second language to English.

Admission to the first year of the Bachelor of Arts (General)/Bachelor of Education (Native Education) degree program requires satisfactory completion of an OSSHGD or OSSD, including six OACs or the equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC English in their program, must be of Native ancestry, and must be recommended by a Native organization.

Laurentian University

The Faculty of Education at Nipissing College offers a one-year consecutive program leading to a Bachelor of Education degree. This program prepares candidates for teaching in Ontario schools and meets the requirements of the Ministry of Education for teacher certification.

As part of this program students may take an optional course entitled the Education of Native Canadians. This course is an introduction to curriculum construction for schools attended by children of Native Canadian ancestry. Although this course does not lead to a special certificate, it does provide an opportunity for practice teaching in Manitoulin Island reserve schools or in small Native communities bordering on James Bay.

Admission to this program requires an approved degree from an accredited university.

A Native Classroom Assistant Certificate is granted to successful graduates of a program offered at the Laurentian campus by the Faculty of Education, Nipissing College, in co-operation with the Department of Native Studies. The program consists of three non-credit five-week courses, each to be taken in a separate summer session.

The program is open to persons of Native Canadian ancestry who have been selected by the responsible authorities of their reserves. For further information write to the Dean of Education, Nipissing College, Box 5002, North Bay, Ontario P1B 8L7.

• Transitional Year Program

University of Toronto

For information on this program please refer to the University of Toronto section.

Courses Available at Ontario Universities

• Arts – Language

Lakehead

Elementary Ojibway or Cree, Algonquian, Iroquoian

Laurentian

Aboriginal languages in the contemporary context
Advanced Cree or Ojibway
Introduction to Cree or Ojibway

Ottawa

Elementary Eskimo and Cree language courses

• Geography

Windsor

The arctic environment
A summer course offered in the Canadian Arctic, with northern and southern students interacting in the classroom and the field. Arctic climatology, geomorphology, and terrestrial and aquatic ecology are covered, with emphasis on individual and group research projects.

• Native Studies

Laurentian

Aboriginal languages in the contemporary context
Aboriginal peoples in the international community (the fourth world)
Aboriginal people: family and community
Aboriginal people and the criminal justice system
Advanced Cree
Advanced Ojibway
An introduction to Cree
An introduction to Ojibway
Canadian law, politics, and aboriginal people
Contemporary Native issues
Culture, behaviour, and the identity of the Native person
Education and Native people
Independent reading and research
La religion des Amérindiens du Canada
Native arts of the Americas: retrospect and transition
Native people and newcomers in Eastern Canada
Native people and newcomers in Western Canada
Nature and man: A Native view
North American Native people: Tradition and culture
Original peoples of Central and South America
Seeing with a Native eye
Selected themes
Social policy and family law with Native people

Trent

Native societies of Canada
Introduction to Native studies
Politics and Native peoples
Iroquois culture and traditions
The Algonkian identity
Native identity development
History of the Indians of Canada
Social services and the Native people
History and politics of Métis & non-status Indians
Native community development
Urbanization and the Native peoples
Education and the Native peoples
Law and the Canadian Indian
Community service methodology
North American Indian metaphysics
Native art of Canada
Oral Mohawk
Oral Ojibway
Advanced Mohawk language and culture
Native peoples in literature
Advanced oral Ojibway
Research methodology

• Sociology and Anthropology

Western

Contemporary Natives of Canada

• Teacher Education

Lakehead, Laurentian, Western

See the *Teacher Education* section of this directory for details.

Further Information

For more information on the programs listed in this section, check the individual college or university sections in this publication, consult the institutions' calendars (available in secondary school guidance offices), or get in touch with the registrar's office.

Registered Private Vocational Schools

Introduction

A wide range of training programs exists to help Ontarians prepare for the job market or enter the professions.

For many occupations, registered private vocational schools can provide a suitable alternative to the training offered by colleges, universities, apprenticeship, and other provincial skills development programs. Private vocational schools have been a part of postsecondary education for many years; in fact, several of the schools have recently celebrated their one hundredth anniversaries.

There are over 200 registered private vocational schools in Ontario. Although several of them offer training in a variety of occupations, the majority focus on courses that will prepare students for clearly defined occupations, such as those listed in this directory. However, all have the common objective of bringing the student, in the shortest possible time, to the level of a beginning practitioner for the advertised occupation. Courses are usually provided in morning, afternoon, and evening sessions and in some cases by correspondence.

Since practical skills are stressed and liberal arts studies minimized, the programs will appeal to those who need practical skills to enter the work force as quickly as possible. Included in this group are students who may not be particularly interested in academic studies at this point in their career, as well as those who need specific practical skills in addition to their academic qualifications to become more competitive in the market place.

Registration of Private Vocational Schools

Private vocational schools are privately owned and are operated as commercial enterprises. However, they must be registered under the Private Vocational Schools Act, which is administered by the Private Vocational Schools Unit, Ministry of Colleges and Universities.

Registration of a school under the Act means that it has met the requirements set out in Regulation 801 under the Act, regarding curricula, teacher qualifications, advertising, course fees, refund policies, and general management practices expected of any business enterprise. Nevertheless, as potential consumers, when choosing a program, students must exercise the same care and precautions that they would undertake when making any major purchase, especially when it is considered that not only their money but also their time is involved.

The schools offer many courses in each subject or occupational area. Courses vary widely in terms of the subject matter that will be covered. For example, one course in radio may teach radio repair, while another may prepare a person for a position with a broadcasting company. It is suggested that students write to the schools offering the subjects that are of interest to them in order to obtain specific information prior to undertaking any formal arrangements with any one specific school.

Although two or more registered private vocational schools may offer programs and courses with similar titles, this does not mean that the courses are of equal merit or will be of equal value to the student. Each school is registered on the basis of its own program offerings, and it is students' responsibility to decide which school and courses best meet their needs. The assessment of a school by potential students should include not only the curriculum but also the facility, the equipment, and the calibre of the teachers; all these aspects should be assessed in relation to the tuition costs.

Sales or Admissions Representatives for Registered Private Vocational Schools

As a service to clients who live far away, some schools employ a representative to meet with prospective clients. Usually the meeting takes place in the clients' own homes.

Ontario law requires that these agents must have identification bearing both their names and the names of the schools represented. The identification should be presented to prospective students whenever business is discussed outside of the schools.

Applicants are cautioned not to become involved, outside the school's premises, with anyone who does not possess valid identification from the school bearing the representative's name.

Types of Programs/Courses Offered

Private vocational schools offer training programs or courses in a variety of residential, combination, or correspondence courses to suit students' life styles or work commitments. The following descriptions are provided for the convenience of the potential applicant.

Residential programs/courses

Residential programs require students to be in personal attendance at the school. Classes may be offered on a full- or part-time basis, in either day or evening sessions. These programs may be offered in either registered or non-registered categories.

Combination programs/courses

Students are able to complete the major part of these programs by correspondence. However, in order to complete the program or course and become eligible to receive the school's diploma or certificate, students must attend the school the school personally for a pre-arranged number of sessions or obtain some on-the-job experience for a specified period of time. Such arrangements must be clearly defined on the contract signed by the student and the school. It should also be indicated whether the program is registered or non-registered.

Correspondence programs/courses

Hundreds of programs and courses may be studied by correspondence through schools registered by the Ministry of Colleges and Universities. They may be offered as either registered or non-registered programs or courses.

Registered programs/courses

Training completed by means of one of these programs or courses provides the successful graduate with a potential for entry-level employment in the occupation for which training was given. Schools offering these programs are required to register under the Private Vocational Schools Act, and the programs or courses must be approved by the Ministry of Colleges and Universities. Examples of the programs appear on the following pages under Section 1: Residence Programs and Section 2: Correspondence Programs, marked with an asterisk(*).

Non-registered programs/courses

Many institutions offer training that does not lead directly to employment; for example, driving instruction for non-commercial vehicles, speed-reading, health and fitness, and tax preparation. These programs are non-vocational in nature, and the schools offering them are not required to register under the Private Vocational Schools Act.

However, since schools registered under the Act may also offer non-registered programs that may be taken either in residence or by correspondence, potential students should ensure that the category "registered" or "non-registered" is clearly specified in any contract. (Non-registered programs do not require the approval of the Ministry of Colleges and Universities.)

Programs that do not require ministry approval include the following:

- secondary school subjects or other preparatory courses that may require completion prior to acceptance into formal training for an occupation or career;
- programs that focus on personal or professional development;
- programs of a very short duration, i.e., under 24 hours;
- programs that are considered recreational in nature;
- programs that may provide students with partial credit towards the requirements designated by certain associations or other regulatory bodies for entry into technical or professional occupations.

Apprenticeship

Some programs offered by registered private vocational schools are closely allied to apprenticeship. A number of trades are regulated under the Apprenticeship and

Tradesmen's Qualification Act. Regulations under this Act require that all persons practising certain trades, such as motor vehicle mechanic, hairdresser, or carpenter, hold a Certificate of Qualification, obtained through apprenticeship training. It is suggested that students read the section "Apprenticeship" elsewhere in this publication before making any decisions about programs of this nature.

General Admission Requirements
For enrolment in most registered private vocational school courses, students should meet one of the following requirements:
– Grade 12 standing or the equivalent;
– mature student status. Mature students should be 19 years of age and have been away from school for at least one year.

Applicants who have mature student status are reminded that some employers require a Grade 12 diploma as a qualification of employment even if a postsecondary training program has been successfully completed.

Applicants should obtain information about any additional or special admission requirements from the school of their choice, as well as the employers in their chosen occupational areas.

Financial Assistance for Students
A limited number of registered private vocational schools are eligible to participate in various government financial assistance programs for students. Normally this assistance applies only to courses that are twelve weeks or longer in duration and require Grade 12 or equivalent for enrolment. For more complete details consult the Student Awards Branch, Ministry of Colleges and Universities, 8th Floor, Mowat Block, Queen's Park, Toronto, Ontario M7A 2B4, or Box 4500, Station P, Thunder Bay, Ontario P7B 6G9, telephone toll-free 1-800-465-3013 or (807) 345-4830; or refer to the section "Financial Assistance for Students" in this guide.

Opportunities for Employment
The fact that individuals have completed a training program in a college, university, or registered private vocational school does not guarantee employment. However, a good program should provide graduates with the skills required to meet the minimum employment standards of a particular occupation.

Factors to Consider Before Enrolling in a Registered Private Vocational School
1. Potential students should realistically evaluate their aptitudes and decide, first, whether they have the physical and mental qualities and the educational background required to profit from the chosen course and second, whether they are willing to devote the time and energy required to succeed in the course.
2. Prior to enrolling in a private vocational school, applicants should ensure that the school is registered to operate in Ontario.
3. Applicants should look at the total cost, including the registration fee, tuition, laboratory fees, books, transportation, room and board, and incidental costs, as well as the cost of interrupting the training.
4. Applicants should ensure that all aspects of the training program, including all tuition costs, the duration of the program, the starting date, and refund policies are stated in the contract to be signed by them.
5. *Applicants should read the contract and be sure they understand it before signing it.* More detailed information can be found in the section on contracts, below.
6. Applicants should visit the school and see the facilities and equipment. If possible, they should talk with some of the school's students or graduates or with employers who have hired graduates.

Additional Information
Further information may be obtained from:
Superintendent, Private Vocational Schools Unit
Ministry of Colleges and Universities
11th Floor
790 Bay Street
Suite 1103
Toronto, Ontario M5G 1N8
Telephone: (416) 965-5348

To obtain specific information about particular courses, students should write to the schools that interest them and request information relating to costs, course content, length of training, entrance requirements, and starting dates for courses.

Further information may also be obtained by writing to the Private Career Education Council, One First Canadian Place, Suite 5900, P.O. Box 24, Toronto, Ontario M5X 1K2; telephone (416) 366-7386.

Contract Between the School and the Potential Student

The Contract
Enrolment in a registered private vocational school must be done by means of a contract. The school is responsible for providing only those educational services that are outlined in its contract or brochure under the conditions or terms specified. The form of the contract must be approved by the Superintendent of Registered Private Vocational Schools, and the actual contract must be signed by both the applicant and the school's owner. In the case of an individual under the age of eighteen, the signature of a guarantor must be included. Both parties to the contract should hold a copy bearing original signatures. The contract is legally binding 48 hours after it has been signed by the applicant or the guarantor.

Retention and Repayment of Fees
In order to ensure that students understand the full cost of training or their liability on withdrawal from a school, the ministry requires that some excerpts from the Revised Statutes of Ontario, 1980, and Ontario Regulation 801 as amended under the Private Vocational Schools Act are included as part of the school's contract. These excerpts provide information on the following:
– the registration fee;
– the amount of tuition fee to be retained by the school or refunded to the student should the student withdraw from the school;
– the amount of tuition fee to be retained by the school or refunded to the student should the student be dismissed from the school for whatever cause;
– the time period within which a refund must be made by the school to the student.

Should there be any tuition fee refund due to the student, the school is obligated to make the refund only if the student has notified the school in writing of his/her intention to withdraw. The letter must either be sent by registered mail or be delivered in person to the school. The date of withdrawal from the school will be the date when the school receives the written notice of withdrawal.

It is advised that all aspects of the contract be clearly understood before the contract is signed by the student or guarantor.

How to Use This Directory
Section 1 of this directory gives a partial list of the courses available on a residence or combination basis.

Section 2 gives a partial list of the courses available by correspondence or on a combination basis.

Section 3 lists the registered private vocational schools that offer the courses listed in the previous two sections. The schools are listed in alphabetical order according to their code and are cross-referenced with the courses they offer. The codes that follow each course in sections 1 and 2 can be matched with the codes that precede the name of each school in section 3.

Only those schools that were registered as of December 31, 1988, are included. A list of private vocational schools registered since that date may be obtained from the Private Vocational Schools Unit at the address given in the "Additional Information" section above.

Section 1: Residence Courses

PROGRAM TYPE	SCHOOL
Accounting	CBT-1, CIB-1, CIB-2, CIB-3, HST, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PBC, SHA-1, TSB-2, TSB-3, TSB-4 TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBC
Animal Care Assistant	OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8
Auctioneering	MAS, SOSA
Audio Technology	OIAR, RAPC-1, TRW
Banking & Bank Teller	CBA, CBS-1, CBS-2, CIB-1, CIB-2, HC-1, HC-2, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, SWBC, TSB-1, TSB-3, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10 TSB-11, TSB-12, TSB-13, WBS
Bartending	CHS, HC-1, HC-2, HSC, TBT, TDC
Bookkeeping	CBA, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, SWBC, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13
Broadcasting	NIB
Business Administration	JBA-1, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, PARK, PBC, SCBC, SHA-1, TSB-1, TSB-2, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBS
Child Care	OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9
Clerical	CBT-1, HER-2, HST, JBA-1, MBS, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBC, WILBC
Computer Programmer/ Operator	AMJ, BRA, CBA, CBT-1, CIB-1, CIB-2, CIB-3, CLC-1, CLC-2, COND, COND-2, COND-3, COND-4, DBCC, DIT, HBI, HER-1, HER-2, HIC, IAMD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, PARK, RBC, SCA, TSB-1, TSB-2, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBS
Computer Technology	AMJ, COND, COND-2, COND-4, COND-4, HER-1, HER-2, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, RETS
Cosmetology	CCMH, LMSA, VERS
Court Reporting	RETS
Data Entry	CBA, CIB-1, CIB-2, PARK, TDI
Dental Office Assistant	CBT-1, CCC-1, CCC-2, CCC-3, HBI, TSB-1, TSB-4
Drafting	ITT
Electrolysis	BIEE-1, DLI, GIN-1, GIN-2, INTE, OBE, PSEB, RSEB, TBSC-1, VERS, ZSEC
Electronics - Technician/ Technologist	AMJ, DIT, RCC, RETS, TSB-2, TSB-3, TSB-4, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13
Esthetics	AA, BIEE-1, DLI, EE-1, ESI, GIN-1, GIN-2, INTE, JMAA, LSAE, MSA, MSSC, PPI-1, PSEB, TBSC-1, VERS, ZSEC
Fashion Design	EPFI, IAMD, LACC
Fashion Merchandising	ESI, FIC, IAMD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, SHA-1, TSB-1, TSB-3, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13
Floristry	CIFD, OBC-1, OBC-3, OBC-4, OBC-5 OBC-6, OBC-7, OBC-8, TSFD-1
Forrestry & Landscaping	NT-1
Health Care Aide	AIHC-1, CAPS, CIHC-1, HCVC, NSV-1, NSV-3, OSIL-1, OSIL-2
Hotel Operations & Management	ACA, CCC-1, CCC-3, CHS, HC-1, HC-2, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, TSB-3, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBS
Interior Design	IAMD, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, SWBC
Laboratory Assistant	NSV-1, RI
Law Clerk	CSPI, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, PBC
Locksmithing	AL
Make-up Artist	ASM, CARYL-1, CSSM-1, EDSK, EFL-1, ESI, ESIM, FSM, GIN-1, GIN-2, ITM-1, ITM-2, JMAA, LAKE, MSSC, NEW, PSEB, RMAM, SMA, TMAS, ZSEC
Manicure/Pedicure	DLI, NAI-1
Massage & Hydrotherapy	CCMH, DLI, JMAA, KIKC, LSAE, SCST-1, SSC
Medical Office Assistant	CCC-1, CCC-2, CCC-3, RI, SWBC
Modelling	AMS-1, ASM, BPMI, CP, CSSM-1, DMSL-1, EDSK, EFL-1, EHFM, ESI, ESIM, FSM, GMCM, ITM-1, ITM-2, JWSM-1, LAKE, MIMC, PPM, RMAM, SFSH, SMCC, SP, UMFS, VM, VWMS-1
Pharmacy Assistant	NSV-1, OBC-1
Private Investigation	CSPI
Retailing	SHA-1, WBS
Secretary – General	CBA, CBT-1, CIB-1, CIB-2, CIB-3, COND, COND-2, COND-3, COND-4, CSPI, DBCC, HBI, HC-1, HC-2,

Secretary – General (cont'd)	HER-1, HER-2, HST, JBA-1, MBS, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RBC, SBA, SCBC, SHA-1, SWBC, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBC, WBS, WILBC
Secretary – Legal	CBA, CBT-1, CIB-1, CIB-2, CIB-3, CSPI, HBI, HER-2, HST, JBA-1, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RBC, SBA, SBC, SHA-1, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBC, WBS, WILBC
Secretary – Medical	CBT-1, HBI, HER-2, JBA-1, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, RBC, SBA, SHA-1, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBS
Security Services	OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8
Servicing – Small Appliance	AMJ
Ship's Crew	ULS
Tractor-Trailer Driver	ADT, ATDT, BDA, CAA, DTDT, EOST, GHA, MER-1, MER-2, MER-3, MHI-1, MIPT-1, MTDS-1, NTTS-1, ODS-1, PTL, RCDT-1, RST, RST-2, SCOT, TCV-1, TDS TRIC-1, TTS-1
Travel	ACA, BST, CBA, CBS-1, CBT-1, CCC-1, CCC-2, CCC-3, CIB-1, CIB-2, CIB-3, DBCC, HC-1, HC-2, HSC, IIT-1, KTA, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, PARK, PBC, SBI, SCBC, SWBC, TSB-1, TSB-3, TSB-4, TSB-5, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, TTCC, WBS, WTI-1
Welding	GWS, ITT, KWW, LSW, LTS, MSW, WAIB-1
Word Processing	AOTC, BRA, CBA, CBS-1, CBT-1, CIB-1, CIB-2, HBI, HC-1, HC-2, JBA-1, MARK, OBC-1, OBC-3, OBC-4, OBC-5, OBC-6, OBC-7, OBC-8, OBC-9, OTS, PARK, PBC, SHA-1, SWBC, TSB-1, TSB-3, TSB-4, TSB-5, TSB-6, TSB-7, TSB-8, TSB-9, TSB-10, TSB-11, TSB-12, TSB-13, WBC, WBS, WILBC

Section 2: Correspondence Courses

PROGRAM	SCHOOLS
*Accounting	CC, GI-1, NC-1, PBI, SCBC
Art	GI-1, SCBC
Bartending and Bar Management	GI-1
Bookkeeping	CC, GI-1, NC-1, PBI, SBC, SHA-2
Business Administration/ Management (Fundamentals)	CC, GI-1, NC-1, SCBC
Computer Programming	SCBC
Cooking	SCBC
Creative Writing	SCBC
Drafting (Theory)	GI-1, SCBC
*Dental Office Assistant (Combination Course)	CCC-1
*Electrical (Combination Course)	AMJ, SCBC
*Electronics (Combination Course)	AMJ
Electronics (Basic)	GI-1, MCGR, SCBC
Estimator	GI-1
Export/Import (Sales and Service)	GI-1
Furniture Repair	SCBC
General Records Clerk	CC, GI-1
*Hotel Restaurant Operation & Management (Combination Course)	CCC-1
Journalism	GI-1
*Kennel Operator (Combination Course)	SCS
Legal Office Procedures	CC, NC-1
Marketing	GI-1
*Medical Office Assistant (Combination Course)	CCC-1
*Medical Terminology/ Medical Records Clerk	GI-1, NC-1
*Microprocessors/Computer Technology (Combination Course)	AMJ
Photography	GI-1, MCGR
Preapprenticeship (Theoretical Subjects)	GI-1, MCGR
Preprofessional Technology (Theoretical Subjects)	GI-1, MCGR, NTS-1
Quality Control Courses (Preparation for CQE and CQT Examinations for the American Society)	GRT
Residential Interior Decorating	GI-1

PROGRAM TYPE	SCHOOL
Résumé Writing	GI-1
Robotics	MCGR,
Selling (Principles and Techniques)	GI-1
Secretary	CC, NC-1, SCBC
*Shorthand	GI-1, SHA-2
Small Business Management	GI-1, NC-1
Statistical Methods for Quality Control	GI-1
Store and Window Display	GI-1
T.V. Applications Technology (Combination Course)	AMJ
T.V./Communications Electronics	MCGR
Television Copy Writing	GI-1
Textiles (Fashion Design and Merchandising)	GI-1
Travel Office (Clerical Duties)	GI-1
Typing	GI-1, PBI, SHA-2
Word/Data Processing	PBI

Note: A combination course requires practical experience and some in-school classes prior to completion.

*These courses have potential to lead directly to employment.

Section 3: Schools

AA Academy of Aesthetics
945 Barrydowne Road
Sudbury P3A 3T9
(705) 560-0260

ACA Algonquin Careers Academy
969 Bronson Avenue
Suite 205
Ottawa K1S 4G8
(613) 230-8127

ADT Advance Driver Training
13 King Street
St.Catharines L2R 3H1
(416) 685-5556

AIHC-1 Associated Institute for Health Care
385 Yonge Street
Suite 300
Toronto M5B 1S1
(416) 971-4049

AL Academy of Locksmithing Inc. (The)
128 Manville Rd.
Unit #17
Scarborough M1L 4J5
(416) 288-8265

AMJ A.M.J. Electronic College
275 First Ave.
Ottawa K1S 2G7
(613) 238-2800

AMS-1 Alexis Modelling School
700 Dundas Street East
Suite # 2
Mississauga L4Y 3Y5
(416) 848-4577

AOTC Automated Office Training Centre (The)
11 Yorkville Avenue
Suite #502
Toronto M4W 1L3
(416) 927-0242

ASM Agency School of Modelling (The)
394 Clarence Street
Upper Level
London N6A 3M7
(519) 432-3955

ATDT Adanac Truck Driver Training Ltd.
2305 Markham Rd.
#24
Scarborough M1B 2W3
(416) 754-2222

BDA Brown's Driving Academy Limited
54B Market Square
Trenton K8V 3V5
(613) 392-4273

BIEE-1 Britain Institute of Esthetics and Electrolysis
1325 Eglinton Avenue East
Suite 214
Mississsauga L4W 4L9
(416) 629-8009

BPMI Barrett-Palmer Models International Inc.
410 Queen Street Suite 1
Ottawa K1R 5A7
(613) 235-5145

BRA Bradson Educational Services
440 Laurier Avenue West
Suite 200
Ottawa K1R 7X6
(613) 232-1110

BST Burlington's School of Travel & Tourism
2027 Lakeshore Road
Burlington L7R 1A2
(416) 632-1988

CAA CAA Business & Training Centre
1215 Ouellette Avenue
Windsor N8X 1J3
(519) 255-1212

CAPS Caps Health Care Aide School
250 Wyecroft Road
Unit 8
Oakville L6K 3T7
(416) 844-5588

CARYL-1 Caryl Baker Visage School of Cosmetics
801 Eglinton Avenue West
Toronto M5N 1E3
(416) 789-7191

CBA Century Business Academy Inc.
43 Eglinton Avenue East
#606
Toronto M4P 1A2
(416) 486-6772

CBS-1 Commercial Business School
2323 Yonge Street
Suite 204
Toronto M4P 2C9
(416) 480-1546

CBS-2 Commercial Business School
90 Dundas Street West
Main Lobby
Mississauga L5B 1H7
(416) 896-0990

CBT-1 College of Business Training
2820 Danforth Avenue
Toronto M4C 1M1
(416) 696-5588

CBT-2 College of Business Training
135 Bayfield Street
Barrie L4M 3B3
(705) 721-1597

CC Canada College
3107 Bloor Street W.
Suite 204
Toronto M8X 1E2
(416) 237-0162

CCC-1 Career Canada College (Toronto)
385 Yonge Street
Suite 200
Toronto M5B 1S1
(416) 977-7797

CCC-2 Career Canada College (Hamilton)
1039 Upper James St.
Hamilton L9C 3A7
(416) 387-5214

CCC-3 Career Canada College (Ottawa)
2315 Riverside Drive
Billings Bridge Plaza
Ottawa K1H 7X6
(613) 523-8355

CCMH Canadian College of Massage & Hydrotherapy
85 Church Street
P.O. Box 340
Sutton West L0E 1R0
(416) 722-3162

CHS Constellation College of Hospitality
900 Dixon Road
Etobicoke M9W 1J7
(416)675-2175

CIB-1 Canadian Institute of Business Ltd.
210 Dundas Street
London N6A 5J3
(519) 672-9520

CIB-2 Canadian Institute of Business Ltd.
242 Indian Road South
Suite 209, Eastland Plaza
Sarnia N7T 3W4
(519) 332-8440

CIB-3 Canadian Institute of Business Ltd.
660 Ouellette Avenue
Suite 206
Windsor N9A 1C1
(519) 258-7870

CIFD Canadian Institute of Floral Design
4812 Yonge Street
North York M2N-5M9
(416) 733-9968

CIHC-1 Canadian Institute of Health Care
1886 Eglinton Avenue West
Suite 1, 2nd Floor
Toronto M6E 2J6
(416) 785-5572

CLC-1 Computer Learning Centre (Peterborough)
228 Charlotte Street
Suite 208
Peterborough K9J 2T8
(705)745-4804

CLC-2 Computer Learning Centre (Whitby)
209 Dundas Street E.
Suite 408
Whitby L1N 7H8
(416) 668-9713

COND Control Data Institute
130 Albert Street
Suite 1204
Ottawa K1P 5G4
(613) 236-8282

COND-2 Control Data Institute
75 Eglinton Avenue East
2nd Floor
Toronto M4P 2Z9
(416) 485-8585

COND-3 Control Data Institute
43 Church Street
St. Catharines L2R 7E1
(416) 641-4474

COND-4 Control Data Institute
1855 Minnesota Court
Mississauga L5N 1K7
(416) 821-6789

CP Celebrity Place
20 Ray St.
Oshawa L1G 5N1
(416) 434-7813

CSPI Canadian School of Private Investigation & Security Ltd.
2828 Dufferin Street
Toronto M6B 3S3
(416) 785-5701

CSSM-1 Cameo School of Self Improvement and Modelling Limited
379 Queen Street South
Kitchener N2G 1W6
(519) 744-8989

CTI-1 Career Training Institute
2828 Dufferin Street
Toronto M6B 3S3
(416)785-5701

CTSC-1 Canadian Travel School Corporation
Canada Life Building
55 Town Centre Court
#512
Scarborough M1P 4X4
(416) 296-9929

CTSC-2 Canadian Travel School Corporation
110 Bloor Street West
Lower Concourse
Toronto M5S 2W7
(416) 968-6333

CTSC-3 Canadian Travel School (Hamilton) Corporation
120 King Street West
Suite 393
Hamilton L8P 4V2
(416) 521-1776

CTSC-H Canadian Travel School Corporation
Mississauga Executive Centre
4 Robert Speck Parkway
#320
Mississauga L4S 1S1
(416) 276-8255

DBCC Durham Business and Computer College
1305 Pickering Parkway
Suite 314
Pickering L1V 3P2
(416) 427-3010

DIT DeVry Institute of Technology
2201 Finch Ave. W.
Weston M9M 2Z4
(416) 741-9220

DLI D'Arcy Lane Institute (The)
379 Dundas St.
London Towers
London N6B 1V5
(519) 673-3965

DMSL-1 Destinations Modelling School Limited
Shoppers World Brampton
499 Main Street S.
Suite 208
Brampton L6Y 1N7
(416) 457-8373

DTDT Double R. Truck Driver Training
2095 Weston Rd.
Suite 212
Weston M9N 1X7
(416) 244-2725

EDSK Expressions by D.S.K.
32 Grand Avenue S.
Cambridge N1S 2L6
(519) 622-2360

EE-1 Ecole d'Esthetique (L')
500-C Old St. Patrick St.
Ottawa K1N 5L9
(613) 594-8230

EFL-1 Eleanor Fulcher Limited
Eaton Centre Galleria
Suite 215
Toronto M5B 3G6
(416) 979-7577

EHFM Elen Henderson Finishing & Modelling Agency Limited
85 Scarsdale Road
Suite 104
Don Mills M3B 2R2
(416) 444-1625

EOST Eastern Ontario School of Trucking Ltd
Sweetnam Drive
R.R. # 2
Stittsville K0A-3G0
(613) 836-2391

EPFI Ellen Peterson Fashion Institute
Ste. N3 & N5
Towne & Country Sq.
Yonge St. & Steeles Ave.
North York M2M 3X4
(416) 222-4533

ESI Elegance Schools Inc.
781 Richmond Street
London N6A 3H4
(519) 434-1181

ESIM Esprit School of Self Improvement & Modelling Inc. (The)
349 Woolwich Street
Guelph N1H 3W4
(519)836-5630

FIC Fashion Institute of Canada (The)
44 Eglinton Avenue West
Suite 2/F
Toronto M4R 1A1
(416) 481-6477

FSM Flare School of Modelling & Self Improvement
444 Timothy Street
Newmarket L3Y 4R6
(416) 898-1149

GHA Grand High Academy Truck Driver Training
1454 Dundas Street East
Suite 103
Mississauga L4X 1P8
(416) 848-5266

GI-1 Granton Institute of Technology Ltd.
263 Adelaide Street West
Toronto M5H 1Y2
(416) 977-3929

GIN-1 Gina's School of Aesthetics and Electrolysis
1801 Eglinton Ave. W.
Suite 212
Toronto M6E 2H8
(416) 782-5737

GIN-2 Gina's School of Aesthetics and Electrolysis
330 Weber St. N.
Waterloo N2J 2Z5
(519) 886-2090

GMCM Gloria Moody Charm and Modelling School
1420 Isabella Street
Thunder Bay P7E 5B9
(807) 622-9084

GRT G.R. Technologies Ltd.
6725 Airport Road
Suite 301
Mississauga L4V 1V2
(416) 677-4123

GWS General Welding School Ltd.
61-63 Jarvis St.
Toronto M5C 2H2
(416) 363-7635

HBI Halton Business Institute
460 Brant Street
Suite 204
Burlington L7R 4B6
(416) 637-3415

HC-1 Heritage College
158 1/2 Rideau Street
Ottawa K1N 5X6
(613) 230-9024

HC-2 Heritage College
80 King Street
St. Catharines L2R 7G1
(416) 641-1500

HCVC Health Care Vocational Centre
253 Danforth Ave.
Suite 200
Toronto M4K 1N2
(416) 463-7970

HER-1 Herzing Institutes of Canada Limited
396 Cooper Street
3rd Floor
Ottawa K2P 2H7
(613) 234-8099

HER-2 Herzing Institutes of Canada Limited
164 Eglinton Avenue East
Toronto M4P 1G4
(416) 484-6996

HIC Honeywell Bull Institute for Continuing Studies
155 Gordon Baker Road
North York M2H 3N7
(416) 499-2855

HSC Hamilton School of Careers
39 Centennial Parkway
Stoney Creek L8G 2C1
(416) 575-8064

HST Huntsville Secretarial Teaching Service
19 Rogers Road
Huntsville P0A 1K0
(705) 789-4267

IAMD International Academy of Merchandising & Design (Canada) Ltd.
31 Wellesley Street East
Toronto M4Y 1G7
(416) 922-3666

IIT-1 International Institute of Travel
Suite 302
1240 Bay Street
Toronto M5R 2A7
(416) 924-2271

INTE International School of Haute Esthetique Edith Serei Toronto Inc.
895 Yonge Street
Toronto M4W 2H2
(416) 924-4382

ITM-1 Make-Up School (The)
151 John St.
Suite 304
Toronto M5V 2T2
(416) 979-7961

ITM-2 International Top Models
185 Somerset St. W.
Suite 201
Ottawa K2P 0J2
(613) 236-9575

ITT Institute of Technical Trades Limited
734 Kipling Avenue
Toronto M8Z 5G5
(416) 255-2369

JBA-1 Johnson Business Academy Limited (The)
1033 Main Street West
2nd Floor
Hamilton L8S 1B7
(416) 523-4494

JMAA Jean Macdonalds Advanced Academy of Make-Up & Esthetics
730 Yonge St.
Toronto M4Y 2B7
(416) 967-9107

JMTS J.M. Transportation Specialists Ltd.
2286 Anson Road
Mississauga L5S 1E8
(416) 672-1330

JWSM-1 Judy Welch School of Modelling
1055 Yonge Street
Suite 210
Toronto M4W 2L2
(416) 922-5839

KIKC Kikkawa Shiatsu School Inc.
1 Riverview Gardens
Toronto M6S 4E4
(416) 762-4857

KTA Knox Travel Academy
2 Bloor Street West
1720
Toronto M4W 3E2
(416) 323-0001

KWW K-W Welding & Fitting Academy
440 Phillip Street
Unit 13
Waterloo N2L 5R9
(519)746-3431

LACC L'Academie des Couturiers Canadiens
447 Sussex Drive
Ottawa K1N 6Z4
(613) 238-5233

LAKE Lakehead Modelling School & Agency
176 Rupert Street
Thunder Bay P7B 3X1
(807) 344-5973

LMSA Luba Mera School of Aesthetics
222 King Street West
Hamilton L8P 1A9
(416) 521-9010

LSAE Lam School of Advanced Esthetics
916 Markham Road
Scarborough M1H 2Y3
(416) 439-3350

LSW Lincoln School of Welding
R.R. # 2
Trenton K8V 5P5
(613) 392-4826

LTS London Technical School
90 Charterhouse Crescent
London N5W 5V8
(519) 455-8460

MARK Markham Word Processing Centre
333 Denison Street
Unit 18
Markham L3R-2Z4
(416) 479-1811

MAS Matthews Auctioneering School
14 Toronto Street
Flesherton N0C-1E0
(519) 924-2621

MBS Metzler Business School
214 Concession Street
Kingston K7L 2B5
(613) 546-1254

MCGR McGraw-Hill Continuing Education Centre
330 Progress Avenue
ScarboroughM1P 2Z5
(416)293-8787

MER-1 Merv Orr's Transport Driver Training School of Cambridge Inc.
8 Strathearn Road
Unit 25
Brampton L6T 4L8
(416) 791-8381

MER-2 Merv Orr's Transport Driver Training School of Cambridge Inc.
746 Hespeler Road
Cambridge N3H 4S6
(519) 623-2430

MER-3 Merv Orr's Transport Driver Training School
2415 Holly Lane
Suite 200
Ottawa K1V 7P2
(613) 523-3489

MHI-1 Materials Handling Institute of Canada Limited
100 Westmore Drive
Unit 4
Rexdale M9V 5C3
(416) 743-4884

MIMC Moda Image and Model Centre
2411 Yonge Street
Suite 202
Toronto M4P 2E7
(416) 482-6744

MIPT-1 Markel Institute of Professional Transport Training
Nicholas Beaver Road
R.R. #3
P.O. Box 150
Guelph N1H 6J6
(519) 763-2383

MSA Mermaid School of Aesthetics
2303 Howard Avenue
Windsor N8X 3V4
(519) 253-1324

MSSC Marvel School of Skin Care & Cosmetics
27 Yorkville Ave.
Toronto M4W 1L1
(416) 923-0991

MSW Mountain School of Welding
1495 Upper James Street
Hamilton L9B 1K2
(416) 383-7827

MTDS-1 Moga Truck Driving School
6680 Finch Avenue West, Unit #3
Rexdale M9W 6C2
(416) 674-0216

NAI-1 Nail Academy Inc.
8 Queen Street West
Brampton L6X 1A1
(416) 450-6245

NC-1 National College
170 St. George Street
#607
Toronto M5R 2M8
(416) 925-9155

NEW New School of Complete Success Models Inc. (The)
6249 St. John Street
Niagara Falls L2J 1C6
(416) 374-3069

NIB National Institute of Broadcasting
1497 Yonge St
Suite C
Toronto M4T 1Z2
(416) 922-2793

NSV-1 New Skills Vocational School
2820 Danforth Avenue
Toronto M4C 1M1
(416) 698-5588

NSV-3 New Skills Vocational School
c/o Fairview Home
799 Concession St
Cambridge N3H 4L1
(416) 421-0372

NT-1	Northern Trainers R.R. #1, District of Sudbury Worthington P0M 3H0 (705) 866-2264
NTTS-1	National Truck Training School 1055 Shawnmarr Road, Unit #158 Mississauga L5H 3V2 (416) 274-0034
0AC	Office Automation Education Centres 25 King Street W. #1325/1400 Commerce Court North Toronto M5L 1E9 (416) 862-8121
OBC-1	Ontario Business College 54 Victoria Avenue Belleville K8N 1Z7 (613) 962-9157
OBC-3	Ontario Business College Lougheed Campus 445 King Street West Kitchener N2G 1C2 (519) 579-3160
OBC-4	Ontario Business College Richmond Centre 54A Centre Street North Oshawa L1G 4B5 (416) 576-9175
OBC-5	Ontario Business College Ottawa Campus 256 King Edward Avenue Ottawa K1N 7M1 (613) 236-0444
OBC-6	Ontario Business College Sudbury Campus 76 Elm Street West Sudbury P3C 1T2 (705) 673-8213
OBC-7	Ontario Business College Thunder Bay Campus 115-117 North May Street Thunder Bay T7C 3N8 (807) 623-2120
OBC-8	Ontario Business College Windsor Campus 2462 Howard Avenue Windsor N8X 3V6 (519) 252-3424
OBC-9	Ontario Business College Laroque-Lafortune Campus 256 King Edward Avenue Ottawa K1N 7M1 (613) 236-0443
OBC-H	Ontario Business College (Head Office) 158 George Street Belleville K8N 3H1 (613) 962-5308
OBE	Ottawa School of Electrolysis 1226A Wellington St. Ottawa K1Y 3A1 (613) 722-0860
ODS-1	Ontario Driving School 288 Horton Street London N6B 1L4 (519) 673-4360
OIAR	Ontario Institute of Audio Recording Technology 500 Newbold Street London N6E 1K6 (519) 686-5010
OSIL-1	Osilla Institute for Health Personnel Ltd. 428 Parliament Street Toronto M5A 3A2 (416) 960-1810
OSIL-2	Osilla Institute for Health Personnel Ltd. 131 John Street South #108 Hamilton L8N 2C3 (416) 529-4507
OTS	Olsten Word Processing 20 Hughson St. S. Suite 401 Hamilton L8N 2A1 (416) 523-5383
PARK	Park Business College 145 King Street East Hamilton L8N 1B1 (416) 528-1108
PBC	Pathfinder Business College School 1 Elmhurst Avenue North York M2N 1R3 (416) 225-3737
PBI	Practical Business Institute (The) 3038A Bloor St. West Toronto M8X 1C4 (416) 239-9919
PPI-1	Professional Performance Institute of Advanced Esthetics 755 Queensway East, Unit #2 Mississauga L4Y 4C5 (416)272-0036
PPM	Penelope Professional Modelling School and Agency Limited 4141 Yonge Street Suite 104 North York M2P-2A8 (416) 733-4440
PSEB	Pebec School of Esthetics & Beauty Therapy 179 King Street 2nd Floor London N6A 1C9 (519) 432-7162
PTL	PTL Truck Driving School Lot 37 & 38 , Sandwich West Tsp P.O. Box 7162 Windsor N9C 3Z1 (519) 734-0080
RAPC-1	Recording Arts Program of Canada 28 Valrose Drive Stoney Creek L8E 3T4 (416) 662-2666
RBC	Retter Business College Inc. 120 Eglinton Ave. E. Suite 215 Toronto M4P 1E2 (416) 481-7111
RCC	RCC School of Electronics Technology 243 College Street Toronto M5T 2Y1 (416) 598-4004
RCDT-1	Richardson Commercial Driver Training Services Ltd. 592 King William Street Caledonia N0A 1A0 (416) 765-5200
RETS	Radio Electronic Television School 2057 Danforth Ave. Suite 200 Toronto M4C 1J8 (416) 698-5287
RI	Robetech Institute Inc. 1001 Woodbine Avenue Toronto M4C 4C2 (416) 467-6435
RMAM	Rita Mansfield Agency Modelling and Finishing School 115 Percy Street Ottawa K1R 6C6 (613) 238-2641
RSEB	Rachelle's School of Electrolysis & Beauty Care 1-425 McArthur Road Ottawa K1K 1G5 (613) 748-3030
RST	Rodgers School of Truck Driver Training Ltd. 881A Jane Street Jane Park Plaza Suite 201 Toronto M6N 4C4 (416) 769-3546
RST-2	Rodgers School of Truck Driver Training Ltd. Highview Mall 5 Highview Avenue, Unit #3 CumberlandBeach L0K 1G0 (416) 762-6721
SBA	Sterling Business Academy Inc. 637 Dundas Street 3rd Floor London N5W 2Z1 (519) 433-3936
SBC	Success Business College 20 Eglinton Avenue East Suite 201 Toronto M4P 1A9 (416) 487-6493
SBI	Syms Business Institute 2289 Fairview Street Unit 106 Fairview Business Park Burlington L7R 2E3 (416) 639-4473
SCA	School of Computer Accounting 3701 Chesswood Dr. Suite 200 Downsview M3J 2P6 (416) 638-8080
SCBC	St. Catharines Business College 101 King Street P.O. Box 1473 St. Catharines L2R 7J9 (416) 685-5421
SCOT	Scott Transport Driver Training Centre 1593 Wilson Avenue, Suite 210 Downsview M3L 1A5 (416) 240-8081
SCS	School of Canine Science (The) R.R. #2 Shelburne L0N 1S0 (519) 925-2658
SCST-1	Sutherland-Chan School and Teaching Clinic 732 Spadina Avenue Toronto M5S 2J2 (416) 924-1107
SFSH	Stevens Finishing School of Hamilton 350 King Street East Suite 207 Hamilton L8N 3Y3 (416)528-5901

SHA-1 Shaw Central College
44 Eglinton Avenue West
2nd Floor
Toronto M4R 1A1
(416) 481-6477

SHA-2 Shaw Home Study College
44 Eglinton Avenue West
2nd Floor
Toronto M4R 1A1
(416) 481-6477

SMA The School of Makeup Art Ltd.
72 Carlton Street
Suite 200
Toronto M5B 1L6
(416) 961-1300

SMCC Sutherland's Modelling and Career Centre
20 Eglinton Avenue East
Suite 400
Toronto M4P 1A9
(416) 488-0900

SOSA Southwestern Ontario School of Auctioneering
P.O. Box 145
Innerkip N0J 1M0
(519) 469-3936

SP Silhouette Productions
288 Ontario Street
Stratford N5A 3H5
(519) 271-8334

SSC Shiatsu School of Canada Inc.
547A College St.
Toronto M6G 1A9
(416) 323-1818

SWBC Southwestern Business College Inc.
111 Waterloo St.
London N6B 2M4
(519) 679-7346

TBSC-1 Thunder Bay School of Cosmetology and Electrology
40 North Algoma Street
Thunder Bay P7A 4Z3
(807) 345-5632

TBT Toronto Bartenders Training School
617A Bloor St. West
Toronto M6G 1K8
(416) 531-3027

TDC Thompson-Davis Careers Institute
343 Richmond St.
Suite 201
London N6A 3C2
(519) 663-5627

TDI The Data Institute
10 St. Mary Street, #603
Toronto M4Y 1P9
(416) 920-0307

TDS Techni-Data Institute of Canada
120 Watline Ave., #4
Mississauga L4Z 2C1
(416) 890-0400

TMAS Toronto Make-Up Artistry School
282 & 278 Dundas Street East
Toronto M5A 1Z9
(416) 967-1800

TRiC-1 Tri-County Vocational Driver Training Schools Inc.
2411 Eagle Street North
Unit 1, R.R. #32
Cambridge N3H 4R7
(519) 653-1700

TRW Toronto Recording Workshop
374 Bering Avenue
Toronto M8Z 3A9
(416) 237-0101

TSB- 1 Toronto School of Business (The)
5631 Yonge Street
Willowdale M2M 3S9
(416) 221-4386

TSB- 2 Toronto School of Business (The)
2436 Yonge Street
Toronto M4P 2H4
(416) 480-2614

TSB- 3 Toronto School of Business (The)
25 Hughson Street South
Hamilton L8N 2A5
(416) 521-2112

TSB- 4 Toronto School of Business (The)
165 Dundas St. West
Mississauga L5B 2N6
(416) 273-7706

TSB- 5 Toronto School of Business (The)
2432 Eglinton Ave. East
Unit # 6
Scarborough M1K 2P8
(416) 288-5333

TSB- 6 Toronto School of Business (The)
771 Yonge Street
Toronto M4W 2G4
(416) 963-5913

TSB- 7 Toronto School of Business (The)
2323 Bloor St. West
Etobicoke M6S 1P2
(416) 766-6015

TSB- 8 Toronto School of Business (The)
1450 Kingston Road
Suite 13
Pickering L1V 1C1
(416) 420-1344

TSB- 9 Toronto School of Business (The)
255 Albert St.
Suite 500
Ottawa K1P 6A9
(613) 233-4533

TSB-10 Toronto School of Business (The)
389 Main Street North
Brampton L6X 1N7
(416) 454-5932

TSB-11 Toronto School of Business (The)
71 King Street
St. Catharines L2R 3H7
(416) 641-5511

TSB-12 Toronto School of Business (The)
120 Ottawa St. North
Eastwood Square Mall
Kitchener N2H 3K4
(519) 745-1140

TSB-13 Toronto School of Business (The)
11 Simcoe Street North
Oshawa L1G 4R7
(416) 723-1163

TSB-H Toronto School of Business (Head Office)
North American Life Centre
Xerox Tower
5650 Yonge St.
North York M2M 4G3
(416) 733-4452

TSFD-1 Toronto School of Floral Design
2628 Yonge Street, Suite #2
Toronto M4P 2J4
(416) 482-3003

TTCC Travel Training Career Centre Ltd.
2160 Yonge Street
Toronto M4S 2A8
(416) 481-2265

TTS-1 Transport Training Systems Inc.
7535 Bath Road
Mississauga L4T 4C1
(416) 672-7070

ULS Upper Lakes Pre-Sea Training
49 Jackes Avenue
Toronto M4T 1E2
(416) 920-7610

UMFS Universal Mannequenn Fashion School & Model Agency
343 Richmond Street
Suite 102
London N6A 3C2
(813) 673-1234

VERS Versailles Academy of Make-Up Arts & Esthetics
35 O'Connor St., Suite 203
Ottawa K1P 5M4
(613) 235-1825

VM Vogue Models
237 Locke Street South
Suite 301-302
Hamilton L8P 4T4
(416) 523-5077

VWMS-1 Verna Williams Modelling & Charm School
2011 James Street
Burlington L7R 1H1
(416) 632-1065

WAIB-1 Welding At Its Best Inc.
28 Micro Court, Unit 6
London N6E 2T5
(519) 668-5330

WBC Warner Business College
89 Wyndham Street North
Unit 303
Guelph N1H 4E9
(519) 824-7461

WBS Westervelt Business School Limited
190 Wortley Road
London N6C 4Y7
(519) 679-0780

WILBC Willis Business College Ltd
85 O'Connor Street
Ottawa K1P 5M6
(613) 233-1127

WTI-1 Westervelt Travel Institute
190 Wortley Road
London N6C 4Y7
(519) 679-0780

ZSEC Zehava School of Esthetics and Cosmetology
4544 Dufferin Street
Suite 205
Downsview M3H 5X2
(416) 665-8030

Study Opportunities for Senior Citizens

• General Information

Colleges of Applied Arts and Technology
Most of Ontario's colleges of applied arts and technology offer postsecondary credit courses through their departments of continuing education or extension to senior citizens for a nominal fee of $5 to $20 per course. There are no specific admission requirements, and senior citizens are normally admitted under the mature students category. They are generally expected to meet normal academic standards and to be responsible for any incidental course fees that may be incurred for materials, books, labs, etc.

Reduced fees for both full- and part-time studies by senior citizens are offered by Algonquin, Cambrian, Canadore, Conestoga, Fanshawe, George Brown, Humber, Loyalist, Northern, St. Lawrence/Saint-Laurent, Sheridan, and Sir Sandford Fleming colleges. Centennial, Confederation, Durham, Mohawk, Niagara, and St. Clair colleges offer reduced fees for senior citizens for part-time studies only. The remainder of the colleges do not waive normal fees for senior citizens who wish to study as full-time students. Colleges may differ somewhat in their admission regulations; prospective students are advised to check with the institution they want to attend.

Special Programs
Cambrian College hosts an Elderhostel, in which participants over 60 years of age stay in the college's residences, tour the City of Sudbury, and take three courses. The program also includes a commuter package for in-town residents who wish to participate in Elderhostel.

Confederation College hosts Elderhostel activities during the summer months. Residence facilities are available on campus.

Georgian College hosts Elderhostel at the end of July. Participants take three courses at the college's Kempenfelt Conference Centre on the shores of Lake Simcoe.

Humber College offers an extensive variety of specialized courses for senior citizens through its Third Age College. Courses dealing with retirement planning and the problems of retirement are available at Canadore, Centennial, Conestoga, Durham College Conference Centre, Loyalist, and Mohawk. Cambrian, Canadore, Sault, Seneca, and Sheridan colleges offer courses of interest to senior citizens at off-campus locations. Lambton College offers the Actively Retired Citizens Program (ARC).

Mohawk College offers Elderhostel in July. Participants sample campus life by living in dormitories, taking college courses, and using campus facilities.

Niagara College offers Elderhostel, a learning/hostelling experience, each year in the city of Niagara Falls.

Northern College offers Elderhostel at its Kirkland Lake Campus. People over 60 years of age participate in a college educational experience for a week, which includes three short courses and a stay in a student residence. In Timmins, Northern College coordinates part-time courses in senior citizens' group homes three times a year.

Elderhostel is hosted at Sheridan College's Credit Valley campus. Programs are open to anyone 60 years of age or older, or the spouse or companion of someone of that age, regardless of educational background. Enrolment is limited to 40 participants.

Universities
Both regular and part-time university studies are available to senior citizens, and nearly all universities offer free tuition. There are no admission requirements specific to senior citizens except proof of age. Several universities admit, as senior citizens, students who are at least 60 years of age, but most require proof that students are 65 years of age or over. Students must be Canadian citizens or permanent residents.

Senior citizens are normally admitted as mature students. Those who wish to enter a program of study leading to a degree must demonstrate the academic ability required to satisfactorily complete university level courses. Most universities set a one-year period of probation for assessment of this academic ability. General aptitude tests may also be required.

The majority of senior citizens enrolled in Ontario universities are taking part-time studies for personal interest.

Since tuition is waived for senior citizens, entry to courses that have restricted enrolments may be denied in some instances. Such courses are generally high-demand courses or are associated with professional (career-oriented) schools and are usually of less interest to senior citizens. In all other respects, senior citizens enjoy the same privileges and are governed by the same regulations as regular students.

Special Programs
Through its unique participation program, the Volunteer Committee of the President's Advisory Committee on Senior Involvement at Ryerson, Ryerson offers seniors a wide range of opportunities for involvement in the Ryerson community. Seniors assist in the library, help international students meet Canadians, act as advisers to students on special research projects or as guest examiners for design projects, serve as tutors, trace "lost" alumni, and serve on numerous committees.

Day and evening study
Brock University offers a variety of programs aimed at senior citizens. Tuition fees in university credit courses are waived for those adults over the age of 60. For details, please contact the Part-Time Programs Office at the university.

Carleton University offers free tuition to persons 60 years of age and older who are registered for credit courses. Reduced fees are offered in non-credit courses. Counselling is available through Carleton's School of Continuing Education.

At the University of Guelph, senior citizens (at least 65 years of age on the first day of the month in which registration for a semester occurs) who are admitted for registration will be exempted from paying tuition, student organization, and other fees.

At Lakehead University, tuition fees for credit courses are waived for individuals 60 years of age and older by September 30 of the academic year. Enrolment may be restricted in limited-enrolment courses. Students are responsible for the costs of books, supplies, and incidental fees.

Laurentian University offers, for a nominal fee, some non-credit courses specifically designed for the over-50s. Free tuition is offered to seniors over 60 years of age in credit courses in which seniors attend regular classes with students of all ages. Counselling is available at the Centre for Continuing Education and Part-Time Studies.

At McMaster University, senior citizens may take credit and non-credit courses free of tuition, subject to meeting academic requirements.

The University of Ottawa offers a variety of credit and non-credit programs and special interest courses aimed at senior citizens. Senior citizens are eligible to study in day, evening, and weekend programs throughout the academic year and during the summer session. The university's Continuing Education office sponsors the Elderhostel Program during the summer. Tuition fees in university credit courses are waived for students over the age of 60.

Queen's University offers free tuition for credit courses to persons 65 years or older who meet regular admission requirements. During the summer, week-long Elderhostel programs are offered. Participants in the programs live in residence on campus, take three non-credit courses, and enjoy a varied activity and entertainment schedule. The coordinator for Elderhostel at Queen's is Doug Thompson, who can be reached at (613) 545-2473.

Ryerson provides those 60 years of age and over with personalized assistance in selecting courses and in registration. A number of special fitness courses designed for seniors, such as swimfit and stretch and tone, are offered by the Recreation and Athletic Centre at Ryerson. A special membership fee is available to seniors, which entitles them to full use of the centre, seven days a week. Ryerson offers seniors a variety of study options in both day and evening courses. A limited number of spaces

are reserved for senior students in several daytime credit courses. Seniors may also apply for admission to other day courses as "special students". Admission is subject to space being available and to regular admission procedures. Some courses may require a prerequisite or the approval of the instructor. All daytime credit courses and most evening courses are tuition-free for all persons 60 years of age and over. Fall classes begin in early September, and winter classes begin in early January. Supplies fees may be levied in certain courses. In addition, a number of courses designed especially for seniors are offered in the fall, winter, and spring. A small fee is charged for these courses. Ryerson also offers two one-week Elderhostel programs in May. For information on registration procedures, course details, or senior involvement at Ryerson, please contact Pam Hitchcock, Co-ordinator, Seniors' Studies, Continuing Education Division, Ryerson Polytechnical Institute, 350 Victoria Street, Toronto, Ontario M5B 2K3. Telephone (416) 979-5103.

The University of Toronto offers free tuition in degree credit courses for seniors 65 and over through its college for part-time studies, Woodsworth College. These courses start in September, January, and May, days or evenings, and prospective students should make an appointment in advance to discuss their course selection with the Co-ordinator of the Senior Citizen's Program. Seniors attend regular classes with students of all ages and may eventually earn a University of Toronto degree by successfully completing at least fifteen courses. Some seniors are content with earning the Certificate of Merit from Woodsworth College for the successful completion of at least six courses. For further information or registration procedures, course details, and other opportunities for senior involvement at the University of Toronto, please contact June Straker, Director, Student Services and Co-ordinator, Senior Citizens' Program, Woodsworth College, University of Toronto, 119 St. George Street, Toronto, Ontario, M5S 1A9. Telephone (416) 978-2411.

Trent University offers counselling for senior citizens through its Julian Blackburn Centre for Continuing Education and offers free tuition in credit courses for seniors over 60 years of age.

At the University of Waterloo, Canadian citizens or permanent residents 65 years of age and over who register for degree credit courses will receive a bursary equivalent to the cost of tuition. This bursary will be awarded at the time or registration. Students will be responsible for all other fees connected with their course or registration. A number of credit courses and public lecture series are offered by the university at various off-campus locations, and senior citizens are invited to attend. The University of Waterloo Mature Student Services Co-ordinator offers programs and services for all mature students, including seniors.

At the University of Western Ontario, individual 60 years of age or over may study in credit or non-credit courses tuition-free. There is a small administrative fee for non-credit courses, and students are responsible for the cost of books and supplies in credit courses. Counselling services are available to the new or prospective senior student, as are academic counselling for course-selection assistance and personal counselling. Western is involved in the Elderhostel Program and offers a non-credit course called "Are You Ready for University" to help adult/senior students develop learning skills. Courses are offered days and evenings. There is a limit on the number of non-paying senior students registered in any non-credit course, and some credit courses have restricted enrolments, which exclude senior students studying tuition-free. Senior students at Western have access to all student services. For further information call the Counselling Office, Faculty of Part-Time and Continuing Education, at (519) 661-3635.

At Wilfrid Laurier University, senior citizens (60 years of age or older) will be admitted to part-time studies regardless of previous academic background. They may register in courses for credit or as audit students. The tuition fee will be waived for part-time studies. The normal academic regulations will apply. Senior citizens may also be admitted to full-time studies on an individual basis, but normal fees will be applied.

The University of Windsor offers free tuition for Canadian citizens 60 years of age or older. Counselling is offered through the Division of Continuing Education, and applicants may be admitted to various programs even if they do not meet the regular admission requirements.

York University offers free tuition in degree credit courses to persons 60 years of age or older. Tuition waiver forms may be obtained from and submitted to the Financial Aid Office, and must be accompanied by acceptable documentation of age, citizenship, and residence.

• Further Information

The following may be contacted for further information on programs and facilities for senior citizens.

Colleges of Applied Arts and Technology

Admissions Office
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606
Toll-free 1-800-267-7061 (Ont., Que., N.B., N.S., P.E.I.)

Continuing Education Division
Cambrian College of Applied Arts and Technology
1400 Barrydowne Rd., Station "A"
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101
Toll-free 1-800-461-7145

Chairman, Part-Time Studies
Canadore College of Applied Arts and Technology
P.O. Box 5001
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 388
Toll-free 1-800-461-7340

Associate Dean
School of Continuing Education
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3345 ext. 379

Director, Continuing Education
Conestoga College of Applied Arts and Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 653-2511 ext. 404

Dean of Continuing Education
Confederation College of Applied Arts and Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
(toll-free for Northwestern Ontario residents 1-800-465-6961)

Admissions Officer
Durham College of Applied Arts and Technology
Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210 ext. 262

Registrar
Fanshawe College of Applied Arts and Technology
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4277

Registrar
George Brown College of Applied Arts and Technology
P.O. Box 1015, Station "B"
Toronto, Ontario M5T 2T9
Telephone (416) 967-1212 ext. 2329

Chairman, School of Continuous Learning
Georgian College of Applied Arts and Technology
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951 ext. 542

Director, Admissions
Humber College of Applied Arts and Technology
P.O. Box 1900
Rexdale, Ontario M9W 5L7
Telephone (416) 675-3111 ext. 4219

Registrar
Lambton College of Applied Arts and Technology
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751 ext. 295

Dean of Continuing Education
Loyalist College of Applied Arts and Technology
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 962-9501 ext. 278

Dean of Part-Time Studies
Mohawk College of Applied Arts and Technology
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2219

Director of Continuing Education Services
Niagara College of Applied Arts and Technology
Woodlawn Rd., P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 514

Area Manager, Special Programs
Northern College of Applied Arts and Technology
Highway 101, P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211 ext. 233

Elderhostel Co-ordinator
Northern College of Applied Arts and Technology
Kirkland Lake Campus
140 Government Road East
Kirkland Lake, Ontario P2N 3L8
Telephone (705) 567-9291

Dean, Continuing Education
St. Clair College of Applied Arts and Technology
2000 Talbot Rd. W.
Windsor, Ontario N9A 6S4
Telephone (519) 966-1656 ext. 575

Registrar
St. Lawrence College Saint-Laurent
2288 Parkedale Ave.
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

Admissions and Academic Records Office
Sault College of Applied Arts and Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 759-6700
Toll-free 1-800-461-2260

Registrar
Seneca College of Applied Arts and Technology
1750 Finch Ave. E.
North York, Ontario M2J 2X5
Telephone (416) 491-5050

Continuing Education Division
Sheridan College of Applied Arts and Technology
1430 Trafalgar Rd.
Oakville, Ontario L6H 2L1
Telephone (416) 845-9430

Admissions Office
Sir Sandford Fleming College of Applied Arts and Technology
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 749-5500
Toll-free 1-800-461-6423

Universities

Assistant Registrar, Admissions
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

School of Continuing Education
Carleton University
Rm. 302, Administration Building
Ottawa, Ontario K1S 5B6
Telephone (613) 788-3500

School of Part-Time Studies and Continuing Education
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120

Director of Continuing Education
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8210
Toll free 1-800-465-3959

Director, Centre for Continuing Education and Part-Time Studies
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3930

Office of the Registrar
Nipissing College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450 ext. 2293

Associate Registrar (Liaison and Admissions)
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4796

Director of Admissions
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3288

Admissions Officer
Part-Time Studies
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

Information Centre
Ryerson Polytechnical Institute
350 Victoria St.
Toronto, Ontario M5B 2K3
Telephone (416) 979-5036

Co-ordinator of Senior Citizens Program
Woodsworth College
University of Toronto
Toronto, Ontario M5S 1A9
Telephone (416) 978-2411

The Registrar
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

Office of Part-Time Studies, Correspondence Courses and Continuing Education
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4002

Faculty of Part-Time and Continuing Education
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 679-3632

Director of Continuing Education
Wilfrid Laurier University
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2447

Director of Part-Time Studies
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 253-4232 ext. 3305

Director of Admissions
York University
4700 Keele St.
Downsview, Ontario M3J 1P3
Telephone (416) 736-5100

Selected Reference Publications

Some of these publications are available in secondary school guidance offices, public libraries, and at college and university admissions offices and libraries. All of the listed prices are subject to change.

Careers

Career Selector Free
Data on over 150 careers – nature of work, training, qualifications, remuneration, etc.
Ontario Women's Directorate
2nd Floor, 480 University Avenue
Toronto, Ontario M5G 1V2

Health Career Paths $3.50
A booklet listing the entrance requirements, length, and location of programs leading to health careers in Ontario.
Ontario Hospital Association
150 Ferrand Drive
Don Mills, Ontario M3C 1H6
Telephone (416) 429-2662 ext. 2333

Jobs for Your Future $3.50
A booklet on how to select the career that's right for you.
Bridging the Gap
155 College St.
Toronto, Ontario M5T 1P6
Telephone (416) 660-1076

OISE PRESS – Guidance Centre
Contact OISE Press – Guidance Centre at the Ontario Institute for Studies in Education, 252 Bloor St. W., Toronto, Ontario M5S 1V5 for a complete listing of all the occupations described in the G. C. Occupational Information Monograph series as well as a copy of their annual catalogue. Telephone (416) 926-4723; Fax (416) 926-4725.

Student Guidance Information Service (SGIS) Provides information on over 1 000 occupations and their educational requirements, and on approximately 200 postsecondary institutions and their programs. This service is available to students in Grades 7 to 13 in all publicly supported schools in Ontario. See your guidance counsellor for assistance.

Education

Accredited Institutions of Postsecondary Education, Programs, Candidates $35.95
Annual listing by the American Council on Education of accredited colleges and universities in the United States. Available in Canada from:
Collier Macmillan Canada Ltd.
539 Collier Macmillan Drive
Cambridge, Ontario N1R 5W9
Toll-free 1-800-265-8672

Commonwealth Universities Yearbook 1987 $215 (prepaid)
A directory to the universities of the Commonwealth. Available in Canada from:
Association of Universities and Colleges of Canada
Publications Department
151 Slater St.
Ottawa, Ontario K1P 5N1

Directory of Canadian Universities 1988/89
$14.00 (prepaid)
Basic information on 71 universities and their affiliated colleges.
Association of Universities and Colleges of Canada
Publications Department
151 Slater St.
Ottawa, Ontario K1P 5N1

Higher Education in the United Kingdom 1987-89 $27.50
A handbook for students and their advisers.
Oryx Press
2214 North Central Avenue
Pheonix, Arizona 85004 U.S.A.

Peterson's Annual Guide to Undergraduate Study: Four-Year Colleges $39.46
Complete information on universities in Canada and the United States.
Book Order Department, Monarch Books
5000 Bathurst Street
Toronto, Ontario M3H 5T5

Regional Schools for Nursing Assistants
Free
A brochure describing the functions of the Registered Nursing Assistant as well as the admission requirements and selection procedures.
Public Inquiries Centre
Ministry of Colleges and Universities
Mowat Block, Queen's Park
Toronto, Ontario M7A 1L2

Spectrum 90 Series (4): Ontario $7.50
Information on colleges, universities, and other education in Ontario. Editions also available for the Atlantic, Quebec, and Western regions.
Guidance Centre, OISE Press
252 Bloor St. West
Toronto, Ontario M5S 1V5
Telephone (416) 926-4723

Tour d'horizon Gratuit
Guide de l'éducation postsecondaire en Ontario à l'intention des Franco-Ontariens: cours dispensés, etc. Unité des renseignements au public
Ministère des Collèges et Universités
Edifice Mowat, Queen's Park
Toronto (Ontario) M7A 1L2

University Education at a Distance: Opportunities in Ontario 1989-90
Calendar of Distance Education Courses
A copy may be obtained free of charge from the individual universities or by writing to:
Council of Ontario Universities
130 St. George Street, Suite 8039
Toronto, Ontario M5S 2T4
Telephone (416) 979-2165

Financial Aid

The following information is available free from
Student Awards Branch
Ministry of Colleges and Universities
P.O. Box 4500
Thunder Bay, Ontario P7B 6G9
Tel. (807) 345-4830/Toll-free 1-800-465-3013

Aird Scholarship
An application form and instruction sheet for disabled students planning to enter their first year of postsecondary study.

Bursary Program for Francophones Outside of Quebec
An application form and brochure explaining eligibility and application procedures for the program. Funded by the Secretary of State of Canada. Bilingual.

Fellowship for Studying in French
An application form and information sheet for students interested in studying French for the first time at the postsecondary level. This program is funded by the Secretary of State of Canada. Bilingual.

Ontario Graduate Scholarship Program
A brochure explaining eligibility and application procedures for the Graduate Study Program. Bilingual.

Ontario-Quebec Exchange Fellowship Program
A brochure explaining eligibility and application procedures for the Graduate Study Program. Bilingual.

Ontario Special Bursary Program
A bilingual application form outlining provincial assistance for part-time students who are receiving social assistance, are unemployed, or have a low family income.

Ontario Student Assistance Program (OSAP)
A booklet outlining provincial and federal financial assistance available to Ontario postsecondary students. Available in English (OSAP) or French (RAFEO).

Sir John A. Macdonald Graduate Fellowship in Canadian History
A brochure explaining eligibility and application procedures of this award, established to pay tribute to Canada's first prime minister by stimulating study in Canadian history. Bilingual.

Summer Language Bursary Program
An application form and brochure explaining eligibility and application procedures for the program. Funded by the Secretary of State of Canada. Bilingual.

William G. Davis Student Award
An application form and information sheet for Crown employees' children entering their first year of postsecondary study. Bilingual.

The bilingual booklets listed below are available, without charge, from
Canada Student Loans Program
Student Assistance Directorate
P.O. Box 2090, Station "D"
Ottawa, Ontario K1P 6C6
Telephone (819) 994-1844
Canada Student Loans Program for Full-Time Students; Canada Student Loans Program Part-Time Loans Program; Repaying Your Canada Student Loan.